One Hundred and Fiftieth

Annual Report of the Trustees

of

THE MASSACHUSETTS GENERAL HOSPITAL

Including the General Hospital in Boston

and the

McLean Hospital in Belmont

For the Year

1963

Officers and Staff

1964

BOSTON : MASSACHUSETTS

FORMS OF LEGACIES

A. *An Unrestricted Legacy*

"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($)."

Money given in this way may be used by the Hospital for any purpose within the scope of its powers. Both principal and income may be so used.

B. *A Legacy Restricted as to Principal but Not Restricted as to Income*

"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($). The principal of this gift shall be held and may be mingled with other funds of the Hospital for investment. The Hospital may expend the income for any purpose within the scope of its powers. (The following sentence is optional.) This gift is made in memory of ..... and shall be known as the ..... Fund."

Money given in this way establishes a permanent fund.

C. *A Legacy Intended for a Special Purpose*

Where either principal or income of a bequest is to be restricted to some special purpose of the Hospital, it is suggested that the testator contact the Treasurer's Office, 45 Milk Street, Boston.

Member of United Community Services of Metropolitan Boston

Member of American Hospital Association

Accredited by the Joint Commission on Accreditation of Hospitals of the United States and Canada

Approved by American Medical Association for Residencies and Internships

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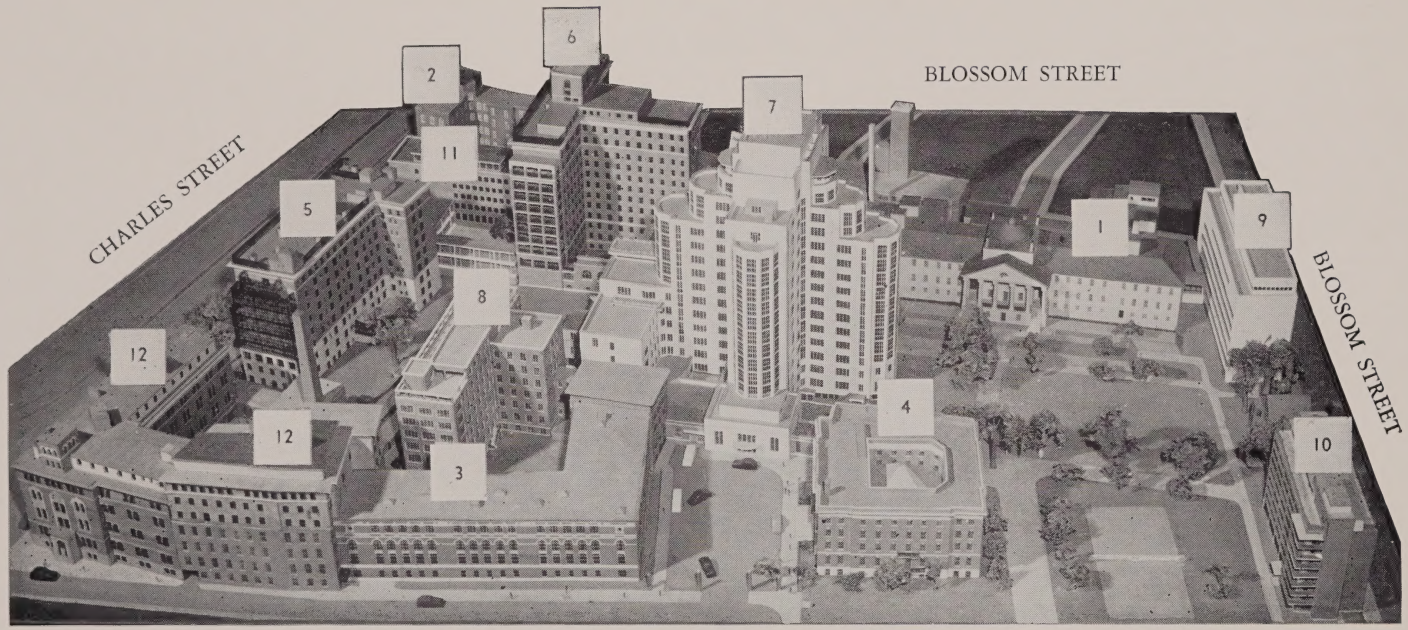

FRUIT STREET

THE MASSACHUSETTS GENERAL HOSPITAL

1. Bulfinch Building (1821); 2. Thayer House Nurses' Residence (1883); 3. The Clinics Building (1903); 4. Moseley Building (1916); 5. Phillips House (1917); 6. Baker Memorial (1930); 7. George Robert White Building (1939); 8. *Vincent Memorial Hospital* and Burnham Memorial for Children (1947); 9. Research Building (1951); 10. Bartlett Hall Nurses' Residence (1953); 11. Warren Building (1956); 12. *Massachusetts Eye and Ear Infirmary* (1899).

One Hundred and Fiftieth Annual Report of the Trustees

OF

THE MASSACHUSETTS GENERAL HOSPITAL

Including the General Hospital in Boston and the McLean Hospital in Belmont

For the year

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Officers and Staff

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ASSOCIATE TRUSTEES: Francis W. Hatch, Edwin W. Hiam, George Putnam and Phillips Ketchum

*Appointed by the Governor of the Commonwealth

BOSTON · MASSACHUSETTS

Information

THE MASSACHUSETTS GENERAL HOSPITAL is a private, incorporated institution supported solely by voluntary contributions and the receipts from those patients who pay board. It consists of three main divisions: The General Hospital for those unable to pay for private medical care, The Baker Memorial with private and semi-private accommodations, and the Phillips House, the private pavilion. All three divisions are for the care of acutely ill persons, or for such chronic cases as can be substantially relieved by hospitalization of short duration. In addition, Storrow House, located in Lincoln, Massachusetts, is for convalescent patients no longer in need of hospital nursing care.

THE GENERAL HOSPITAL

Entrance: Fruit Street, end of North Grove Street. Telephone—523-8200.

Arrangements for the admission of patients to the General Hospital should be made at the Admitting Office in the George Robert White Building (Extension 2214).

Emergencies are admitted at any hour; arrangements should be made by telephone. Persons injured by accident or overcome by acute illness may come to the Emergency Ward at the Hospital entrance at any time.

The Clinics of the Massachusetts General Hospital and the Massachusetts Eye and Ear Infirmary, open for admission from 8:15 a.m. to 10:00 a.m. and from 1:00 p.m. to 3:00 p.m., are for patients who can not afford the cost of private medical care. Appointments may be made by mail, telephone, or personal application at the Admitting Desk.

THE BAKER MEMORIAL

Entrance: Same as the General Hospital. Telephone—523-8200.

The Baker Memorial is for patients of moderate means. Arrangements for admission should be made at the Admitting Office in The Baker Memorial (Extension 446).

Patients may be referred by any physician, but may be attended only by members of the Staff of the Massachusetts General Hospital and the Massachusetts Eye and Ear Infirmary.

THE PHILLIPS HOUSE

Entrance: 265 Charles Street. Telephone—523-8200.

Information about admission may be obtained at the Phillips House Admitting Office. Patients may be referred by any physician, but may be attended only by members of the Staff of the Massachusetts General Hospital and the Massachusetts Eye and Ear Infirmary.

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Secretary and Assistant Treasurer

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1943	Lloyd D. Brace, 67 Milk Street
1947	*Francis O. Schmitt, Ph.D., Department of Biology Massachusetts Institute of Technology, Cambridge
1955	Philip H. Theopold, 294 Washington Street
1958	*Sidney R. Rabb, 393 D Street, So. Boston
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1963	*H. Brooks Beck, Jr., 53 State Street
1963	Elliot L. Richardson, 50 Federal Street

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1962	Edwin W. Hiam, Associate Trustee, 75 Federal Street
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(March 1964 - February 1965)

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April and October
Mr. Gray and Mr. Theopold

May and November
Mr. Lawrence and Mr. Rabb

June and December
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July
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August
Professor Schmitt and Mr. Burr

January 1965
Mr. Lowell and Mr. Brace

February
Professor Schmitt and Mr. Burr

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McLean Hospital
Mr. Lowell, Monsignor Barry, and Messrs. Rabb and Putnam
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(Plant Engineer)

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Information, General Hospital — Hope Wright
Instrument Shop — Carl Althausen
Orthopedic Workshop — William Murphy
Print Shop — Ralph H. Cluff, Jr.
School of Illustration and Visual Education Service — Thomas A. Stebbins
Treadwell Library — Genevieve Cole
Volunteers — Mary Ruth Wolf

Staff

VISITING STAFF

MEDICAL DIVISION

GENERAL MEDICINE

Chief of Medical Services

Robert H. Ebert, M.D.

Consulting Visiting Physicians

Edward F. Bland, M.D.
Charles L. Short, M.D.

Physicians

Myles P. Baker, M.D.
Earle M. Chapman, M.D.
Daniel S. Ellis, M.D.
Dana L. Farnsworth, M.D.
Bernard M. Jacobson, M.D.
John H. Knowles, M.D.
Alfred Kranes, M.D.*
Alexander Leaf, M.D.
Jacob Lerman, M.D.
Francis C. Lowell, M.D.
Marian W. Ropes, M.D.
John B. Stanbury, M.D.
Conger Williams, M.D.
Paul C. Zamecnik, M.D.

Associate Physicians

William H. Baker, M.D.
William S. Beck, M.D.
Perry J. Culver, M.D.
Briant L. Decker, M.D.
Allan L. Friedlich, M.D.
Harriet L. Hardy, M.D.
Reed Harwood, M.D.
Kurt J. Isselbacher, M.D.
Rita M. Kelley, M.D.
Janet W. McArthur, M.D.
Gordon S. Myers, M.D.
Arthur S. Pier, Jr., M.D.
Walter W. Point, M.D.
Lloyd H. Smith, Jr., M.D.
John D. Stoeckle, M.D.
Morton N. Swartz, M.D.
Louis Weinstein, M.D.
Edwin O. Wheeler, M.D.

Assistant Physicians

Irving P. Ackerman, M.D.
Alan C. Aisenberg, M.D.
John C. Angley, M.D.
K. Frank Austen, M.D.
Victor G. Balboni, M.D.
Kenneth T. Bird, M.D.
Milton H. Clifford, M.D.
Leslie J. DeGroot, M.D.
Daniel D. Federman, M.D.
Richard A. Field, M.D.
Anne P. Forbes, M.D.
Gerald S. Foster, M.D.
William Franklin, M.D.
Howard S. Frazier, M.D.
Joseph W. Gardella, M.D.
Frederick T. Hatch, M.D.
Benjamin L. Huntington, M.D.
Stephen M. Krane, M.D.
John W. Littlefield, M.D.
Farahe Maloof, M.D.
Edwin P. Maynard, III, M.D.
Lot B. Page, M.D.
John T. Quinby, M.D.
Walter T. St. Goar, M.D.
Guillermo C. Sanchez, M.D.
W. Davies Sohier, Jr., M.D.
George P. Sturgis, M.D.
Arthur L. Watkins, M.D.
Richard G. Whiting, M.D.

*Acting Chief of Medical Services to June 30, 1964

Assistants in Medicine

David W. Allen, M.D.
George P. Baker, Jr., M.D.
Francis G. Barnum, Jr., M.D.
Patricia H. Benedict, M.D.
Kurt J. Bloch, M.D.
Caesar Briefer, Jr., M.D.
James H. Currens, M.D.
John C. Dalton, M.D.
Roman W. DeSanctis, M.D.
Alvin Essig, M.D.
Andrew G. Frantz, M.D.
Mehran Goulian, M.D.
Edgar Haber, M.D.
John Homans, Jr., M.D.
John W. Irwin, M.D.
H. Walter Jones, Jr., M.D.
Robert H. Jones, M.D.
Lewis W. Kane, M.D.
John W. Keller, M.D.
Bernard Kliman, M.D.
Jan Koch-Weser, M.D.
Alfred Leitner, M.D.*
William F. McNeely, M.D.
Donald B. Martin, M.D.
John A. Mills, M.D.
Maurice M. Pechet, M.D.
Sholem Postel, M.D.
Richmond Prescott, M.D.
Mitchell T. Rabkin, M.D.
Dwight R. Robinson, M.D.*
Charles A. Sanders, M.D.
Allan I. Sandler, M.D.
Robert H. Schapiro, M.D.
John H. Sisson, M.D.
Frank A. Warner, M.D.
Arnold N. Weinberg, M.D.
Hibbard E. Williams, M.D.*
Martin J. Wohl, M.D.*

Applied Physicist

Gordon L. Brownell, PH.D.

Associate Applied Physicist

Saul Aronow, PH.D.

Assistant Applied Physicist

Charles Alden Burnham, M.S.

Assistant Physicists

William H. Ellett, M.SC.
Kathleen Stratton, PH.D.

Associate Biologists

Nancy L. R. Bucher, M.D.
Jerome Gross, M.D.

Associate Biophysicist

Jesse F. Scott, M.D.

Biochemists

Lewis L. Engel, PH.D.
Roger W. Jeanloz, PH.D.

Associate Biochemists

Barbara Wright Kalckar, PH.D.
Robert B. Loftfield, M.D.

Assistant Biochemists

Donald G. Comb, PH.D.
Sen-itiroh Hakomori, M.D.
Shelby Kashket, PH.D.
Marvin R. Lamborg, PH.D.
James C. Orr, PH.D.
Mary J. Spiro, PH.D.
Mary Louise Stephenson, PH.D.

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*7.1.64

Associate Immunologist
Sidney Leskowitz, PH.D.

Consulting Assistant Immunologist
Edna M. Follensby, PH.D.

Consultant in Mathematics to the Physics Research Laboratory
George P. Wadsworth

DERMATOLOGY

Chief of Service
Thomas B. Fitzpatrick, M.D., PH.D.

Dermatologist
Maurice M. Tolman, M.D.

Assistant Dermatologists

Ruth K. Freinkel, M.D.
Earl A. Glicklich, M.D.
Robert D. Griesemer, M.D.
Milton E. Helman, M.D.
Philip L. McCarthy, M.D.
Robert F. Tilley, M.D.

Assistants in Dermatology

Leroy D. Aaronson, M.D.
Howard P. Baden, M.D.
William L. Curwen, M.D.
Irwin M. Freedberg, M.D.
Charles S. Keuper, M.D.
Burnham E. Lampkins, M.D.
Myron H. Matz, M.D.
A. David McGugan, M.D.
Arthur S. Spangler, M.D.

Associate Biochemist
Irvin H. Blank, PH.D.

Associate Biologist
George Szabó, PH.D.

Assistant Biochemists

Jean B. Burnett, PH.D.
Madhukar A. Pathak, PH.D.
Robert Scheuplein, PH.D.
George F. Wilgram, M.D.

Research Associates

Jack Cohen, PH.D.
Ruth Mitchell, M.R.CH.B.

NEUROLOGY

Chief of Service
Raymond D. Adams, M.D.

Neurologists

Mandel E. Cohen, M.D.
Edwin M. Cole, M.D.
Philip R. Dodge, M.D.
C. Miller Fisher, M.D.
Vincent P. Perlo, M.D.
Edward P. Richardson, M.D.
Robert S. Schwab, M.D.

Associate Neurologists

Pierre M. Dreyfus, M.D. — William H. Timberlake, M.D.
Henry deF. Webster, M.D.

Assistant Neurologists

Hugo W. Moser, M.D. — David C. Poskanzer, M.D.
Ernest H. Picard, M.D. — Richard L. Sidman, M.D.
Karel van Syckel Toll, M.D.

Assistants in Neurology

Barry G. Arnason, M.D. — Peter R. Huttenlocher, M.D.
Mary L. Efron, M.D. — Mary L. Scholl, M.D.
Albert C. England, Jr., M.D. — Ruth E. Stauffer, M.D.
T. Corwin Fleming, M.D. — Alfred D. Weiss, M.D.
Robert E. Flynn, M.D. — Gerald F. Winkler, M.D.

Neurophysiologist

John S. Barlow, M.D. — Elwood Henneman, M.D.

Psychologist

Murray Sidman, PH.D.

Associate Psychologists

James G. Holland, PH.D. — Lawrence T. Stoddard, PH.D.

Associate Biochemist

John Gergely, M.D.

PSYCHIATRY

Chief of Service

Erich Lindemann, M.D., PH.D.

Psychiatrists

Gerald Caplan, M.D. — Gardner C. Quarton, M.D.
Morris E. Chafetz, M.D. — Peter E. Sifneos, M.D.
*Frank R. Ervin, M.D. — Alfred H. Stanton, M.D.
Paul M. Howard, M.D. — Elizabeth R. Zetzel, M.D.
John C. Nemiah, M.D. — Avery D. Weisman, M.D.

Associate Psychologists

Henry H. Brewster, M.D. — John H. Lamont, M.D.
Herbert Barry, Jr., M.D. — Walter Mann, M.D.
Robert L. Bragg, M.D. — *Jack H. Mendelson, M.D.
*Thomas P. Hackett, M.D. — David E. Reiser, M.D.
*Richmond Holder, M.D. — Jerome L. Weinberger, M.D.

Assistant Psychiatrists

Jason A. Aronson, M.D. — Frances J. Bonner, M.D.
Clemens E. Benda, M.D. — Franklin Carter, M.D.
Norman R. Bernstein, M.D. — Gerald E. Davidson, M.D.

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*Hall-Mercer Hospital Staff

Daniel C. Dawes, M.D.
Frederick J. Duhl, M.D.
William H. Eger, M.D.
Freddy H. Frankel, M.D.
Phillip H. Gates, M.D.
Benjamin F. Gill, M.D.
Helen M. Herzan, M.D.
Pierre Johannet, M.D.
Samuel Kaplan, M.D.
Maria Lorenz, M.D.
Milton Mazer, M.D.
Edward Messner, M.D.
*Harry S. Olin, M.D.
Maxwell G. Potter, M.D.
Leonard Weiner, M.D.

Assistants in Psychiatry

Herbert S. Cline, M.D.
Lucille P. Carter, M.D.
Abraham L. Finesinger, M.D.
Martin J. Kantor, M.D.
Herbert O. LeVine, M.D.
George W. Rever, M.D.
Jack O. Rice, M.D.
William Sharpe, Jr., M.D.
William R. Shelton, M.D.
Harold W. Williams, Jr., M.D.

Psychologists

Marc A. Fried, PH.D.
Judy F. Rosenblith, PH.D.
*George A. Talland, PH.D.
John M. von Felsinger, PH.D.

Associate Psychologists

Howard T. Blane, PH.D.
Donald C. Klein, PH.D.
Robert C. Misch, PH.D.
Richard R. Peebles, PH.D.
Irving Wolf, PH.D.

Assistant Psychologists

Lenin A. Baler, PH.D.
Frank M. Buckley, PH.D.
Douglas F. Hooper, PH.D.
Nancy Mello, PH.D.
James J. Muller, PH.D.

Associate Sociologist

*Louisa P. Howe, PH.D.

Assistant Sociologists

Peggy J. Golde, PH.D.
Irving K. Zola, PH.D.

Assistant in Mathematics

Stephen Lorch

Consultant in Biomathematics

Theodore A. Kalin, SC.B.

CHILDREN'S SERVICE

Chief of Service

Nathan B. Talbot, M.D.

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*Hall-Mercer Hospital Staff

Pediatricians

Leo B. Burgin, M.D.
John D. Crawford, M.D.
Philip R. Dodge, M.D.
Robert N. Ganz, M.D.
Ralph A. Ross, M.D.

Associate Pediatricians

T. Berry Brazelton, M.D.
John P. Connelly, M.D.
William A. Dickson, M.D.
LeRoy L. Eldredge, Jr., M.D.
Lawrence J. Essember, M.D.
Richard B. Kearsley, M.D.
Thomas C. Peebles, M.D.
Gertrud C. Reyersbach, M.D.
Robert H. Richie, Jr., M.D.
Robert T. Sceery, M.D.
Mary Louise Scholl, M.D.
Rudolf Toch, M.D.
Richard H. Watson, M.D.
Eleonore C. Zaudy, M.D.

Assistant Pediatricians

James J. A. Cavanaugh, M.D.
William D. Cochran, M.D.
Nathan H. Fearer, M.D.
George A. Glines, M.D.
Herbert A. Haessler, M.D.
Robert J. Haggerty, M.D.
Charlotte G. Neumann, M.D.
Philip J. Porter, M.D.
Charles V. Pryles, M.D.
Edward F. Rabe, M.D.
John S. Robey, M.D.
Wilhelmina Van Dyke, M.D.
Dorothy B. Villee, M.D.
Thomas J. Whitfield, III, M.D.

Assistants in Pediatrics

William J. Adelson, M.D.
Donald J. Annino, M.D.
Arnold D. Fiascone, M.D.
Thomas Frank, M.D.
Andrew D. Guthrie, Jr., M.D.
Peter R. Huttenlocher, M.D.
John B. Joseph, M.D.
Donald Muirhead, M.D.
*Stephen L. Reynolds, M.D.
Murray K. Rosenthal, M.D.
Jordan S. Ruboy, M.D.
Lois M. Smedley, M.D.
Boris Senior, M.D.

Associate Psychologist

Marvin Snider, PH.D.

Staff assigned from other Services and Departments

General Surgery: W. Hardy Hendren, III, M.D.; William C. Quinby, Jr., M.D.; Bradford Cannon, M.D.; W. Gerald Austen, M.D.; J. Gordon Scannell, M.D.; John D. Constable, M.D.

Gynecologic Surgery: Howard Ulfelder, M.D.

Neurosurgery: Vernon H. Mark, M.D.

Orthopedic Surgery: J. Drennan Lowell, M.D.; Carter R. Rowe, M.D.

*7.1.64

Urological Surgery:	Guy W. Leadbetter, M.D.
Psychiatry:	Frank R. Ervin, M.D. Richmond Holder, M.D.
Dental Medicine:	David Weisberger, D.M.D., M.D.
Anesthesia:	Phillips Hallowell, M.D.

SURGICAL DIVISION

GENERAL SURGERY

Chief of Surgical Services

Paul S. Russell, M.D.

Visiting Surgeons

Marshall K. Bartlett, M.D.
Bradford Cannon, M.D.
Oliver Cope, M.D.
Gordon A. Donaldson, M.D.
E. Thomas Gephart, M.D.
Edward Hamlin, Jr., M.D.
Francis M. Ingersoll, *M.D.*
J. Gordon Scannell, M.D.
Claude E. Welch, M.D.

Associate Visiting Surgeons

John F. Burke, M.D.
Thomas H. Green, Jr., M.D.
Hermes C. Grillo, M.D.
George L. Nardi, M.D.
W. Hardy Hendren, M.D.
John W. Raker, M.D.
George S. Richardson, M.D.
Grant V. Rodkey, M.D.
Robert S. Shaw, M.D.
Frank C. Wheelock, Jr., M.D.
Earle W. Wilkins, Jr., M.D.

Assistant Surgeons

W. Gerald Austen, M.D.
Benjamin A. Barnes, M.D.
Glenn E. Behringer, M.D.
John D. Constable, M.D.
Celso-Ramon Garcia, M.D.
John M. Head, M.D.
Charles E. Huggins, M.D.
John B. McKittrick, M.D.
Charles G. Mixter, Jr., M.D.
William C. Quinby, Jr., M.D.
William P. Rogers, Jr., M.D.

Assistants in Surgery

Edwin L. Carter, M.D.
R. Clement Darling, M.D.
Stephen E. Hedberg, M.D.
Ronald A. Malt, M.D.
Anthony P. Monaco, M.D.
Edwin W. Salzman, M.D.
Chiu-an Wang, M.D.

ANESTHESIA

Chief of Service

Henry K. Beecher, M.D.

Anesthetists

Henrik Holt Bendixen, M.D.
Donald P. Todd, M.D.

Anesthetist pro-tempore

Sven E. H. Nilsson, M.D.

Associate Anesthetists

John W. D. Garrett, M.D. Phillips Hallowell, M.D.
Henning Pontoppidan, M.D.

Assistant Anesthetists

George E. Battit, M.D. Myron B. Laver, M.D.
Lawrence D. Egbert, M.D. Eliot Macy Slater, M.D.

Assistants in Anesthesia

Michael H. M. Dykes, M.B., B. Chir. Bucknam McPeek, M.D.
John Hedley-Whyte, M.B., B. Chir. Roger H. Morris, M.D.
Thomas J. Keenan, M.D. John D. Murphy, M.D.
Leo T. Kelly, M.D. Talbot D. Seigne, M.B., B. Chir..
Susanne J. Lamdin, M.D. Howard A. Trachtenber, M.D.
Sarita G. Walzer, M.D.

GYNECOLOGY

Chief of Service

Howard Ulfelder, M.D.

Staff shared with General Medical and Surgical Services

NEUROSURGERY

Chief of Service

William H. Sweet, M.D., D.SC.

Visiting Neurosurgeon

H. Thomas Ballantine, Jr., M.D.

Assistant Neurosurgeon

Vernon H. Mark, M.D.

Assistants in Neurosurgery

Hannibal Hamlin, M.D. Robert G. Ojemann, M.D.
Raymond N. Kjellberg, M.D. R. Lewis Wright, M.D.

Associate Biochemist in Neurosurgery

Adelbert Ames, III, M.D.

Associate Chemist in Neurosurgery
Albert H. Soloway, PH.D.

Assistant Biophysicist in Neurosurgery
Stanley Bullivant, PH.D.

Assistant Neurophysiologist
Padmaker P. Lele, M.D., PH.D.

ORTHOPEDIC SURGERY

Chief of Service
Joseph S. Barr, M.D.

Consulting Visiting Orthopedic Surgeon
Edwin F. Cave, M.D.

Visiting Orthopedic Surgeons
Otto E. Aufranc, M.D.
Thornton Brown, M.D.

Assistant Orthopedic Surgeons
Thomas L. DeLorme, M.D.
Melvin J. Glimcher, M.D.
William H. Harris, M.D.
William N. Jones, M.D.
William R. MacAusland, Jr., M.D.
Eugene E. Record, M.D.
John A. Reidy, M.D.
Carter R. Rowe, M.D.
Morten Smith-Petersen, M.D.

Assistants in Orthopedic Surgery
Robert B. Brendze, M.D.
William L. Kermond, M.D.
J. Drennan Lowell, M.D.
Richard A. Mayo, M.D.
Edward A. Nalebuff, M.D.
Edward J. Riseborough, M.D.
Edwin T. Wyman, Jr., M.D.

Assistant Podiatrists
John D. McLean, D.S.C.
Hugh J. O'Rourke, D.S.C.
Homer J. Squires, D.S.C.

UROLOGY

Chief of Service
Wyland F. Leadbetter, M.D.

Consulting Visiting Urologist
Sylvester B. Kelley, M.D.

Visiting Urologists
Walter S. Kerr, Jr., M.D. Howard I. Suby, M.D.

Assistant Urologists
Guy W. Leadbetter, Jr., M.D. Edward C. Parkhurst, M.D.
Lorande M. Woodruff, M.D.

Assistants in Urology
Joshua J. Hurwitz, M.D. Harold A. Rudy, M.D.
William L. Strickler, M.D.

DENTAL MEDICINE

Oral Surgeon and Chief of Dental Medicine
David Weisberger, D.M.D., M.D.

Assistant Oral Surgeons
Neville A. Booth, D.M.D.
Harold A. Carnes, D.M.D.
Henry J. Carney, D.M.D.
George Christman, D.M.D.
Walter C. Guralnick, D.M.D.
Richard L. Miner, D.D.S.
Earle H. Rosenberg, D.M.D.
Norman Trieger, D.M.D.

Dental Surgeons
Harold A. Bratt, D.M.D.
Peter A. Dempsey, D.M.D.
Charles H. Endee, D.M.D.
Henry D. Howe, D.M.D.
Owen W. Kite, D.D.S.
Glenn W. Lawrence, D.M.D.
Robert C. Lincoln, D.M.D.
Morton J. Olin, D.M.D.
Frederick K. Poulin, D.M.D.
Donald B. Rae, D.D.S.
Frank I. Rhodes, D.M.D.
Keith A. Shangraw, D.M.D.
J. Henry Stempien, D.M.D.
Earle J. Waddington, D.M.D.

Assistant Dental Surgeons
William L. Cosgrove, D.M.D.
Peter G. Kimball, D.M.D.
Julius J. Levitan, D.M.D.
Joseph C. Oakley, D.M.D.
Symon C. Polansky, D.M.D.
Leonard B. Shulman, D.M.D.
William H. Tingey, Jr., D.M.D.
John B. Taylor, D.D.S.

DEPARTMENTS

PATHOLOGY

Chief of Department
Benjamin Castleman, M.D.

Pathologists
Robert E. Scully, M.D. Edgar B. Taft, M.D.
Austin L. Vickery, Jr., M.D.

Associate Pathologists
Wallace H. Clark, Jr., M.D. Richard B. Cohen, M.D.

Associate Visiting Pathologist
Ronald C. Sniffen, M.D.

Assistant Pathologists
Leonard Atkins, M.D. Martin H. Flax, M.D.
James B. Caulfield, M.D. Priscilla Dienes Taft, M.D.

Assistants in Pathology
Karoly Balogh, M.D. Sanford I. Roth, M.D.

Neuropathologists
Raymond D. Adams, M.D. Edward P. Richardson, M.D.

Associate Neuropathologist
C. Miller Fisher, M.D.

Assistant Neuropathologist
Henry deF. Webster, M.D.

BIOCHEMICAL RESEARCH

Henry S. Wellcome Research Biochemist
Herman M. Kalckar, M.D., PH.D.

Assistant Biochemists
Robert A. Darrow, PH.D. Hiroshi Nikaido, M.D., PH.D.
Kaney Ebisuzaki, PH.D. Annette M. C. Rapin, PH.D.

Research Associate
Cyrus R. Creveling, PH.D.

BACTERIOLOGY

Bacteriologist
Lawrence J. Kunz, PH.D.

Assistant Bacteriologist
Barbara K. Watson, PH.D.
Infection Control Officer
Howard E. Houghton, M.S.

CLINICAL CHEMISTRY LABORATORIES

Chief
Sidney V. Rieder, M.D.

RADIOLOGY

Chief of Department
Laurence L. Robbins, M.D.

Radiologists
Milford D. Schulz, M.D.
Stanley M. Wyman, M.D.

Associate Radiologists
Jack R. Dreyfuss, M.D.
J. Malcolm MacNeill, M.D.
Paul F. J. New, M.D.
Majic S. Potsaid, M.D.
Chiu-chen Wang, M.D.

Consulting Visiting Radiologist
Richard Schatzki, M.D.

Assistant Radiologists
Robert E. Dinsmore, M.D.
**Douglass H. Howry, M.D.
Henry P. Pendergrass, M.D.
Frederick S. Tomchik, M.D.
Alfred L. Weber, M.D.
Walter T. Weylman, M.D.

Assistants in Radiology
Champlain Charest, M.D.
*D. Neil Dickson, M.D.
**Delbert J. Heslin, M.D.
*Edward J. Kelly, M.D.
Robert A. Nebesar, M.D.
*Willard Perry, Jr., M.D.
James J. Pollard, M.D.
James A. Rourke, M.D.
Houston F. Stevens, M.D.

Engineer
Malcolm Mackay

Physicist
Edward W. Webster, PH.D.

Assistant Physicist
Antonios A. Apostolides, PH.D.

PHYSICAL MEDICINE

Chief of Physical Medicine
Arthur L. Watkins, M.D.

*7.1.64
**When Mass. license received

BLOOD BANK AND TRANSFUSION SERVICE

Director
Morten Grove-Rasmussen, M.D.

Assistant Director
Robert S. Shaw, M.D.

CONSULTANTS

Consultant in Medicine
Benjamin G. Ferris, M.D.

Consultants in Preventive Medicine
John E. Gordon, M.D. David D. Rutstein, M.D.

Consultant in Tropical Diseases
George C. Shattuck, M.D.

Consultant in Neuropathology
Paul I. Yakovlev, M.D.

Consultants to Children's Service
William Berenberg, M.D. Louis K. Diamond, M.D.
Stewart H. Clifford, M.D. Alexander S. Nadas, M.D.
Clement A. Smith, M.D.

Consultant in Biophysics in Neurosurgery
Eugene Bell, M.SC., PH.D.

Consultants to Orthopedic Service
Morris Cohen, PH.D. Robert J. Hansen, SC.D.

Consultant in Pathology
Walter G. J. Putschar, M.D.

Consultants in Forensic Pathology
Michael A. Luongo, M.D.

Consultants in Radiology
Giulio J. D'Angio, M.D. Henry I. Kohn, PH.D., M.D.
Edward B. D. Neuhauser, M.D.

Consultants in Physics
George Scatchard, PH.D.
Robley D. Evans, PH.D. John G. Trump, D.SC.

Consultant in Neurophysiology
Alexander Forbes, M.D.

Consultants in Pharmacology
Oleg Jardetzky, M.D., PH.D. Otto Krayer, M.D.

ASSOCIATE STAFF

Clinical Associates in Medicine

John G. Freymann, M.D.
John R. Graham, M.D.
David Littmann, M.D.
Sylvester McGinn, M.D.
Henry D. Stebbins, M.D.
Frederic Tudor, M.D.
Arthur A. Wills, Jr., M.D.

Clinical Associates in Dermatology

Joseph Albert, M.D.
Clito R. Damiani, M.D.
Nicholas J. Fiumara, M.D.
John L. Fromer, M.D.
Basil C. Gray, M.D.
William R. Hill, M.D.
Sabino J. Sinesi, M.D.

Clinical Associates in Psychiatry

Ruth M. Crossfield, M.D.
Peter B. Hagopian, M.D.
Arthur W. McMahon, M.D.
Lionelle D. Wells, M.D.

Clinical Associates in Children's Service

Elroy E. Anderson, M.D.
Doris R. Bennett, M.D.
Albert Cohen, M.D.
Robert A. Driscoll, M.D.
James E. Drorbaugh, M.D.
John A. Duggan, M.D.
Edward C. Dyer, M.D.
John G. Flynn, M.D.
Theodore S. Golden, M.D.
Joseph L. Lewis, M.D.
Alexander S. MacDonald, Jr., M.D.
Francis C. McDonald, M.D.
Joseph J. McGovern, M.D.
Edward F. McGrath, M.D.
James A. O'Shea, M.D.
William Pfeffer, Jr., M.D.
Walter Pick, M.D.
Leonard H. Plotkin, M.D.
Marion L. Slemons, M.D.
Joseph F. Stocks, M.D.
Robert F. Wilson, M.D.
Alan Ziskind, M.D.

Clinical Associates in Surgery

Richard C. Austin, M.D.
Martin J. Bellinger, M.D.
Charles B. Burbank, M.D.
Richard R. Curtin, M.D.
Chester J. Dexter, M.D.
George F. Emerson, M.D.
Edward L. Ferguson, M.D.
Gerald G. Garcelon, M.D.
Frank W. Garran, Jr., M.D.
Walter E. Garrey, M.D.
Ward I. Gregg, M.D.
Irad B. Hardy, M.D.
Clement A. Hiebert, M.D.
Joseph A. Holmes, M.D.
William K. McClelland, M.D.
George A. Marks, M.D.
Carroll C. Miller, M.D.
Joseph E. Murray, M.D.
Spiros P. Sarris, M.D.
James M. Shannon, M.D.
Richard H. Thompson, M.D.
Masao Yatsuhashi, M.D.

Clinical Associate in Neurosurgery

Jost J. Michelsen, M.D.

Clinical Associate in Orthopedic Surgery
Thomas F. Broderick, Jr., M.D.

Clinical Associate in Urology
Emil J. Ganem, M.D.

Clinical Associates in Dental Medicine
Herman DeWilde, D.M.D.
Daniel J. Holland, Jr., D.D.S.
George M. Noss, D.M.D.
Charles E. Rounds, D.M.D.
Edward L. Sleeper, D.D.S.

Clinical Associate in Pathology
Robert Fienberg, M.D.

Clinical Associates in Radiology
Joseph Hanelin, M.D.
H. Peter Mueller, M.D.
Richard G. O'Brien, M.D.

Clinical Associates in Obstetrics
Robert H. Barker, M.D.
A. Gordon Gauld, M.D.
John L. Newell, M.D.
Charles P. Sheldon, M.D.
Bartlett H. Stone, M.D.

CLINICAL ASSISTANTS

Medicine
Donnell W. Boardman, M.D.
Arthur E. Brown, M.D.
Albert I. C. DeFriez, M.D.
John Denovian, M.D.
Anne F. Godley, M.D.
William A. Hall, M.D.
Charles S. Keevil, Jr., M.D.
Louis Kunian, M.D.
Alice Lowell, M.D.
Joseph M. Miller, M.D.
Robert K. Osborne, M.D.
Robert S. Pinals, M.D.
Edward S. Rendall, M.D.
Raymond J. Savignac, M.D.
Oscar E. Starobin, M.D.
Gordon DuF. Winchell, M.D.

Psychiatry
Joseph H. Brenner, M.D.
Bruce W. Fischberg, M.D.
Robert L. Kelley, M.D.

Surgery
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L. Henry Edmunds, M.D.
Paul F. Gryska, M.D.
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Peter J. Mozden, M.D.
John V. Pikula, M.D.
Aram Roopenian, M.D.
John L. Rowbotham, M.D.
D. Albert Young, M.D.

Neurosurgery

Earl F. Jordan, M.D.

Orthopedic Surgery

James S. Hewson, M.D.
Verner S. Johnson, M.D.

Pathology

Sheldon Cooperman, M.D.
G. Richard Dickersin, M.D.
Robert S. Harper, M.D.
George F. Kwass, M.D.

Radiology

John B. Little, M.D.
D. Glyn Millard, M.D.
James A. Peterson, M.D.
John T. Pollard, Jr., M.D.

HOUSE STAFF

Residents and Interns
As of January 1, 1964

Medicine

Chief Resident:
Hibbard E. Williams, M.D.

Residents:

James R. Carter, Jr., M.D.
Karl Engelman, M.D.
Paul F. Griner, M.D.
George A. Jacoby, Jr., M.D.
Hugh H. Kopald, M.D.
Peter M. Yurchak, M.D.

Assistant Residents:

J. Michael Bishop, M.D.
Verne S. Caviness, Jr., M.D.
Edward D. Harris, Jr., M.D.
Brian E. Henderson, M.D.
Paul A. Kantrowitz, M.D.
James R. Lehrich, M.D.
Robert C. Moellering, Jr., M.D.
William A. Robinson, M.D.
George N. Rogentine, Jr., M.D.
John N. Sheagren, M.D.
Philip F. Sparling, M.D.
Herbert S. Waxman, M.D.

Interns:

Arthur J. Atkinson, Jr., M.D.
Winthrop H. Churchill, Jr., M.D.
Robert B. Copeland, M.D.
Bernard G. Forget, M.D.
Thomas D. Gelehrter, M.D.
Albert R. Martin, M.D.
Frederick L. Moolten, M.D.
Gordon T. Moore, M.D.
John Noble, Jr., M.D.
Richard K. Root, M.D.
Jay H. Sanders, M.D.
Samuel R. Snodgrass, Jr., M.D.

Dermatology

Assistant Resident:

Kenneth A. Arndt, M.D.
Raymond J. McGill, Jr., M.D.
E. Laurie Tolman, M.D.

Neurology

Resident: Carl M. Leventhal, M.D.

Assistant Residents:

Robert E. Burke, M.D. Thomas N. Chase, M.D.
Donald L. Price, M.D.

Psychiatry

Assistant Residents:

Marianne Dierks, M.D. Eddie H. Harris, M.D.

Children's

Chief Resident: John B. Joseph, M.D.

Assistant Residents:

Rosemary C. Dobson, M.D. Michael A. Kornfield, M.D.
Dora R. Empson, M.D. Eileen M. Oullette, M.D.
Gerald W. Hazard, M.D. John C. Robinson, M.D.
Maurice E. Keenan, M.D. Michael A. Zwerdling, M.D.
Daniel C. Shannon, M.D.

Interns:

Lewis B. Holmes, M.D. Esther H. Robinson, M.D.
Mark E. Molliver, M.D. Joel Rutman, M.D.

Surgery

Residents:

Jack J. Greenberg, M.D. Charles F. McKhann, III, M.D.

First Assistant Residents:

Theodore C. Barton, M.D. Anthony S. Patton, M.D.
Moses J. Folkman, M.D. Don C. Pearl, Jr., M.D.
Nicoll F. Galbraith, Jr., M.D. John P. Remensnyder, Jr., M.D.
Mark M. Kartchner, M.D. George M. Williams, M.D.
Nelson R. Lampert, M.D. Richard H. Wohl, M.D.
Gustave C. E. Mueller, M.D. Livingston M. F. Wong, M.D.

Second Assistant Residents:

William M. Abbott, M.D. Raphael H. Levey, M.D.
Joseph R. Barrie, M.D. John W. Madden, M.D.
James R. Callison, M.D. Gerald M. Moss, M.D.
Jacobus M. Greep, M.D. Peter J. Morris, M.D.
Michael E. Jabaley, M.D. Leslie W. Ottinger, M.D.
S. Bertrand Litwin, M.D. Robert E. Sweat, M.D.
Bruce E. Zawacki, M.D.

Third Assistant Residents:

Ann R. Barnes, M.D. Dexter W. Lawson, M.D.
Graeme L. Hammond, M.D. Ralph A. Lehman, M.D.
Paul L. Kornblith, M.D. Michael N. Margolies, M.D.

George A. May, Jr., M.D.
Dennis D. O'Keefe, M.D.
LeRoy S. Wirthin, M.D.

Interns:

Douglas M. Behrendt, M.D.
Richard F. Brubaker, M.D.
Joseph M. Civetta, M.D.
Preston H. Gada, M.D.
Gerald N. Gold, M.D.
Donald P. Griffith, M.D.
Miles J. Novy, M.D.
Joseph B. Philipson, Jr., M.D.
Robert E. Steele, Jr., M.D.
Clinton D. Vermillion, M.D.
Andrew L. Warshaw, M.D.
Dennis R. Whitlow, M.D.

Neurosurgery

Chief Resident: Earl F. Jordan, M.D.

Assistant Residents:

Edward P. Baker, Jr., M.D.
Jerald S. Brodkey, M.D.
Yechiel D. Heilbronn, M.D.
Murray H. Helfant, M.D.
Harold A. Wilkinson, M.D.

Anesthesia

Chief Resident: Ronald W. Dunbar, M.D.

Assistant Residents:

John H. Barsch, M.D.
Sidney A. Blubaugh, M.D.
Joan M. Brown, M.D.
Leonard S. Bushnell, M.D.
Joan W. Flacke, M.D.
Arthur D. Thomas, M.D.
Peter M. Winter, M.D.

Orthopedics

Resident: Philip I. Salib, M.D.

Assistant Residents:

Michael A. Ashworth, M.D.
Lynn L. Ault, M.D.
William C. Bostic, III, M.D.
Robert A. First, M.D.
Eugene J. Morrissey, M.D.
Eric L. Radin, M.D.
James G. Rich, M.D.
Robert C. Runyon, M.D.
William G. Stewart, Jr., M.D.
Roderick H Turner, M.D.
Kirby L. C. Von Kessler, M.D.

Urology

Resident: Robert E. Williams, M.D.

Assistant Residents:

Frank E. Carlton, M.D.
John P. Donohue, M.D.
Brendan M. Fox, M.D.
Elwin E. Fraley, M.D.
Richard C. Hirschhorn, M.D.

Pathology

Residents: F. Daniel Foley, M.D.
Jonas Hallgrimsson, M.D.
John B. Blennerhassett, M.D.

Assistant Residents:

Sheldon S. Baddock, M.D.
Francisco Civantos, M.D.
Arthur W. Duff, M.D.
Norman G. Helgeson, M.D.
James L. Steele, M.D.
Robert R. Young, M.D.

Radiology

Residents:

Abbott R. Miller, M.D.
Melvin E. Clouse, M.D.

Assistant Residents:

Gerald M. Kolodny, M.D.
Luiz F. Mattoso, M.D.
William J. Otto, Jr., M.D.
Richard J. Steckel, M.D.
Roland G. Ware, Jr., M.D.
Dale E. Wenlund, M.D.
Jack Wittenberg, M.D.
George F. Zinninger, M.D.

Dental

Resident: Donald L. Leake, D.M.D.

Interns:

Nelson E. Bailey, D.M.D.
Robert E. Evans, D.M.D.

CLINICAL AND RESEARCH FELLOWS
MEDICINE

Echampati R. Acharyulu, M.D.
Babatunde Kwaku Adadevoh, M.D.
Yoshiro Aso, M.D. Vis. Fellow
Chitra Biswas, M.D.
John A. Bolzan, M.D.
Donald L. Bornstein, M.D.
Jack Braunwald, M.D.
Marie-Helene Buc, M.D.
Arthur B. Callahan, PH.D.
Oskar A. Chomicki, B.SC., M.A.
John R. Collins, M.D.
Howard B. Corning, M.D.
Albert Damon, M.D.
Charles M. Doering
Maria L. Dufau, M.D.
John T. Dunn, M.D.
John C. Fletcher, M.D.
George Fostiropoulis, M.D.
Joseph W. Fowler, III, M.D.
John H. Franks, M.D.
Mary C. Glick, PH.D.
Norton J. Greenberger, M.D.
John W. Harthorne, M.D.
Csaba J. Horvath
Dennis E. Hyams, M.D.
Yasuo Imai, M.D.
Jorgen G. Jacobsen, M.D.
Branislav D. Jankovic, M.D.
Valerie E. Jones, PH.D.
James C. Jordan, M.D.
Robert E. Kahn, M.D.
Paul A. Kantrowitz, M.D.
Harry J. Karavolas, B.S.
Homayoun Kazemi, M.D.
Ora Kedem, M.SC., PH.D.
Eugeniusz J. Koscielak, M.D.
Alice You-lan Ku, PH.D.
Arthur S. Kunin, M.D.
Patricia M. Leeson, M.D.
Alfred Leitner, M.D.
Norman S. Lichstenstein, M.D.
Austra Likais, M.D.
Heinz G. Lustig
Jens Lyngsøe, M.D.
Gerald A. Medeiros-Neto, M.D.
Jean-Pierre Mach, M.D.

Gordon K. MacLeod, M.D.
Hubert L. Mayer, PH.D.
Charles A.M.Y. Nagant de Deuxchaines, M.D.
Nasir-ud-in, M.D.
Hans B. Nevinny-Stickel, M.D.
Toshiaki Osawa, PH.D.
David W. Parsons, M.D.
George B. Petersen, PH.D.
Aldo Pinchera, M.D.
Joseph Pines, M.D.
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Elinor D. U. Powell, M.D.
Eduardo Pretell, M.D.
Kurt Randerath, M.D.
Jan-Gerrit Rausch-Stroomann, M.D.
William E. Reeves, M.D.
Pentti K. Reissell, M.D.
Alistair G. C. Renwick, M.B.
Frank F. Richards, M.D.
Dwight R. Robinson, M.D.
Hugues Ryser, M.D.
Seymour M. Sabesin, M.D.
Takahiro Sakai, M.D.
Prem Sagar Sarin, M.D.
Lewis Sasse, M.D.
Stuart J. Saunders, M.D.
Jules R. Schwaber, M.D.
Geoffrey W. G. Sharp, PH.D.
Jeremiah E. Silbert, M.D.
Ivan Spuzic, PH.D.
Isadore Starr, M.D.
George Strauch, M.D.
William E. Strole, Jr., M.D.
Douglas H. Thomson, M.D.
John T. Truman, M.D.
Gentaro Usuku, M.D. Vis. Fellow
Guillermo Urrutia, M.D.
Paul G. Walfish, M.D.
R. Bruce Wilcox, PH.D.
Martin J. Wohl, M.D.
Donald N. Wysham, M.D.
William J. Yount, M.D.

Dermatology

Kenneth A. Arndt, M.D.
Arthur Z. Eisen, M.D.
B. Allen Flaxman, M.D.
Kiichi Ishikiwawa, M.D.
Martin C. Mihm, Jr., M.D.
Richard F. Passey, PH.D.
Robert B. Scoggins, M.D.
Shing Yiu Yip, M.D.

Psychiatry

Harold Abramowitz, M.D.
Thomas Belleau, M.D.
Guido Belsasso- Prister, M.D.
Randolph Catlin, Jr., M.D.
Robert Cserr, M.D.
Donald G. Dorencamp, M.D.
Donald J. Fern, M.D.
Bruce W. Fischberg, M.D.
William H. Goodson, Jr., M.D.
Philip Gross, M.D.
Frank Haendel, M.D.
Gary Jacobson, M.D.
Audrey M. Jones, PH.D.
Jacob Katzow, M.D.
Alfred J. R. Koumans, M.D.
Miguel A. Leibovich, M.D.
John B. Livingstone, M.D.
William F. McCourt, M.D.
Michael T. McGuire, M.D.
Donald J. Morrison, M.D.
Nancy T. P. Nichols, M.D.
Prabha Ramalingaswami, PH.D.
Judith G. Ronat, M.D.
Christopher Van A. Rowland, Jr., M.D.
Yoichi Saito, M.D.
Lawrence C. Salveson, M.D.
Michael A. Selzer, M.D.
Judith Sharir, M.A.
Alas P. Sheldon, M.D.
Danuta M. Stachiewiez, M.D.
Michael J. Walker, M.D.
John S. Weltner, M.D.

Children's

Ramon S. Garcia, M.D.
Margot D. Jonas, M.D.
Margaret H. MacGillivray, M.D.
Barry I. Pless, M.D.
Anthony P. Redmond, M.D.
Krishna M. Saxena, M.D.
Lester F. Soyka, M.D.

Neurology

Otto Appenzeller, M.D.
J. Richard Baringer, M.D.
Laurent Descarries, M.D.
Larry J. Embree, M.D.
Eduardo Mirabel-Font, M.D.
Arthur L. Prensky, M.D.
Peter B. Rosenberger, M.D.
Norman P. Rosman, M.D.
Frederick J. Samaha, M.D.
Stephen L. Wanger, M.D.
Thomas E. Zion, M.D.

Neuropathology

Arthur K. Asbury, M.D.
Karl-Eric Aström, M.D.
Bennett M. Derby, M.D.
Robert E. Hayes, III, M.D.
Gwendolyn R. Hogan, M.D.
Joshua Hollander, M.D.
Byron A. Kakulas, M.D.
Donald A. McGee, M.D.
Shyam S.. Pant, M.D.

Surgery

Ellen F. Dignan, M.D.
John G. Gray, M.D.
Alfonso G. Jazo, M.D.
Gordon J. Johnson, M.D.
Lee V. Leak, PH.D.
Juan C. Piccinini, M.D.
E. Uma Ramagopal, M.D.
Anne Wight Phillips, M.D.
Barbara H. Sanford, PH.D.

Neurosurgery

Douglas N. Butler, PH.D.
Hiroki Hirai, M.D.
Kenichiro Higashi, M.D.
Masayoshi Kowada, M.D.
Alexander G. MacIntyre, M.D.
Stig H. M. Nystrom, M.D.
Pasko Rakic, M.D.
Ralph W. Turner, B.SC.

Orthopedic Surgery

Anthony L. Andrikides, PH.D.
Benjamin E. Bierman, M.D.
Laurence C. Bonar, PH.D.
James D. Coleman, M.D.
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Samuel R. Kamhi, PH.D.
Elton P. Katz, PH.D.
Murray V. King, PH.D.
John J. MacNeil, M.D.
Gerald L. Mechanic, PH.D.
Harilaos T. Sakellarides, M.D.
Dorothy F. Travis, PH.D.

Anesthesia

James E. Anliker, PH.D.
Anthony B. Browne, M.D.
Cesare G. Coletta, M.D.
Gary R. Gerson, M.D.
John A. Goodwin, M.D.
Pentti J. Leikkonen, M.D.
Joseph A. Mulherin, M.D.
Patrick F. Noone, M.D.
John W. L. Parry, M.D.
Francoise Halkin Rix, M.D.
Astrid Seifen, M.D.
Menno E. Sluijter, M.D.
Gene M. Smith, M.D.
Kunio Suwa, M.D.
Judith A. Tassie, M.D.
David E. Tolhurst, M.D.

Pathology

Juanito B. Billote, M.D.
Glenda R. E. Wacker Brodkey, M.D.
Stanley Cohen, M.D.
Harold F. Dvorak, M.D.
Luiz A. A. Fagundes, M.D.
James M. Gibson, M.D.
Friedrich J. Gloor, M.D.
Hanne Gram, M.D.
Richard W. Sagebiel, M.D.
Hubert J. Wolfe, M.D.

Radiology

Lan Chang Chiang, M.D.
Norman D. Levine, M.D.
K. Jack Momose, M.D.
Guillermo H. Merino, M.D.
Fred A. Rundlett, M.D.
Shigeru Shibata, M.D.
Donald L. Stone, M.D.
Melvin Tefft, M.D.

Blood Bank

Anthony F. H. Britten, M.D.

Biochemical Research

Amar N. Bhaduri, PH.D.
Erika E. Randerath, PH.D.

McLEAN HOSPITAL

List of Officers of the McLean Hospital will be found on page 173.

The Ophthalmological and Otolaryngological needs of the Massachusetts General Hospital are served by the Massachusetts Eye and Ear Infirmary. Their Staff becomes a part of the Staff of the Massachusetts General Hospital and is as follows:

MASSACHUSETTS EYE AND EAR INFIRMARY

DEPARTMENT OF OPHTHALMOLOGY

Chief of Ophthalmology

David G. Cogan, M.D.

Associate Chief of Ophthalmology for Clinical Services

Carl C. Johnson, M.D.

Surgeons in Ophthalmology

Brendan D. Leahey, M.D.
Mahlon T. Easton, M.D.
Garrett L. Sullivan, M.D.
Albert E. Sloane, M.D.
Carl C. Johnson,, M.D.
Earl S. Seale, M.D.

Associate Surgeons in Ophthalmology

Thomas Cavanaugh, M.D.
Henry F. Allen, M.D.
W. Morton Grant, M.D.
Sumner D. Liebman, M.D.
Abraham Pollen, M.D.
Charles L. Schepens, M.D.
Harry E. Braconier, M.D.
Henry A. Mosher, M.D.
Karl Riemer, M.D.
Francis J. West, M.D.
Joseph M. Clough, M.D.
Robert J. Brockhurst, M.D.

Assistant Surgeons in Ophthalmology

Charles H. MacLaughlin, M.D.
Julian F. Chisholm, Jr., M.D.
Richard B. Pippitt, M.D.
David H. Scott, M.D.
Taylor R. Smith, M.D.
William Stone, Jr., M.D.
Frederic B. Breed, M.D.
Warren D. Haley, M.D.
Thomas P. Cronin, M.D.
Arthur M. Morrissey, M.D.
John M. Hill, M.D.
Ichiro D. Okamura, M.D.
D. Robert Alpert, M.D.
David D. Donaldson, M.D.
Robert J. Herm, M.D.
Charles D. J. Regan, M.D.
Alfred W. Scott, M.D.

Assistants in Ophthalmology

S. Arthur Boruchoff, M.D.
Arthur F. Calnan, M.D.
Richard B. Chapman, M.D.
Eugene C. Ciccarelli, M.D.
Claes-Henrik Dohlman, M.D.
Carl Gates Freese, Jr., M.D.
Ephraim Friedman, M.D.
John R. Gehring, M.D.
Ralph H. Hinckley, M.D.
Paul D. Hurley, M.D.
David S. Johnson, M.D.
Carl Kuper, M.D.
Robert C. Lawlor, M.D.
Byron S. Lingeman, M.D.
Irwin T. Mancall, M.D.
J. Wallace McMeel, M.D.
Bertha Offenbach, M.D.
George M. Olive, Jr., M.D.
Irving L. Pavlo, M.D.
Robert D. Reinecke, M.D.
Perry Rosenthal, M.D.
Paul M. Runge, M.D.
Baruch J. Sachs, M.D.
Richard J. Simmons, M.D.
Jeremy B. Whitney, M.D.
Michael Wiedman, M.D.

DEPARTMENT OF OTOLARYNGOLOGY

Chief of Otolaryngology

Harold F. Schuknecht, M.D.

Surgeons in Otolaryngology

John R. Richardson, M.D.
John R. Frazee, M.D.
Joseph Lentine, M.D.
J. Charles Drooker, M.D.
Daniel Miller, M.D.
Donald K. Lewis, M.D.

Associate Surgeons in Otolaryngology

Herman J. Sternstein, M.D.
John E. McKeigue, M.D.
Bernard Zonderman, M.D.
Aram Roopenian, M.D.
Charles Kent, M.D.
George F. Reed, M.D.
William W. Montgomery, M.D.
Robert E. Klotz, M.D.
Sidney R. Wilker, M.D.
Anthony Zovickian, M.D.

Assistant Surgeons in Otolaryngology

Elizabeth DeBlois, M.D.
Hugo D. Angelini, M.D.
Louis E. Griffey, M.D.

Surgeons in Otolaryngology

Frank W. Brady, M.D.
Werner D. Chasin, M.D.
Robert W. Clubb, M.D.
Floyd B. Goffin, M.D.
William L. Hayden, M.D.
Lawrence S. Hirsch, M.D.
Alfred L. Hurst, M.D.
Geza Jako, M.D.
Thomas R. Klein, M.D.
Robert H. Lofgren, M.D.
Michael M. Paparella, M.D.
David L. Pierce, M.D.
Daniel J. Reagan, M.D.
Mendell Robinson, M.D.
Sydney Shore, M.D.
Morris Swartz, M.D.
John C. Trakas, M.D.
Albert Weiser, M.D.
Alfred D. Weiss, M.D.

One Hundred Fiftieth Report of the Trustees

IN the 152nd year of the Hospital, the Board of Trustees has the honor to report developments many of which will prove to be landmarks in the history of the Massachusetts General Hospital.

In his second year as General Director, Dr. John H. Knowles, in discharging his many-sided responsibilities, has continued to provide outstanding leadership in helping to develop policy and administrative techniques with which to cope successfully with unprecedented problems of medicine, surgery, and economics in patient care during an all-time high in census, as well as with problems connected with the functions of teaching and of research when the proliferation of scientific findings is revolutionizing these fields. One of Dr. Knowles' outstanding contributions was the arrangement of the Lowell Lecture Series on "The Hospital's Responsibility to the Community." Presented approximately every week from February 7 through May 15, these lectures were open to the public, which responded enthusiastically. The lectures portrayed outstanding forward-planning and thinking not only for the Hospital community but for the community at large.

Much progress was made in the planning for the North Building as the primary need for the future of the Hospital. Rogers and Butler of New York were retained as architects for the preliminary planning.

Negotiations, extending throughout the year, with the Shrine of North America culminated in a satisfactory plan that the Shrine will build and finance the new Burns Institute, on their own land on Blossom Street, to be staffed and professionally guided by the Hospital.

More than two years of negotiations with the City of Boston and its School Committee resulted in the Hospital's acquisition of the Winchell School. Unfortunately this transaction did not

eventuate in time to use the Building for the 1963-64 Nursing School year.

The history-making McLean Hospital Rehabilitation Center, completed during the year, was dedicated on October 18 with an inspiring evening program.

Dedication of the Biomedical Building at Harvard Cyclotron, in which the Departments of Physics at Harvard and Neurosurgery at the Hospital are associated, occurred on November 7.

Preliminary planning for the Cardio-Pulmonary Center, between the Bulfinch and the Research Building, was followed by success in financing the project through a grant from the Public Health Service and a very generous gift from the trustees of the Harold W. Pierce Charitable Trust.

The new Emergency Ward X-ray facilities were financed by the December 1962 drive and by a grant from Hill-Burton funds and construction was virtually completed.

Extensive improvements were made in the Social Service area on the first floor of the Clinics Building and the sixth and seventh floors of the Phillips House were renovated, thus completing that important undertaking.

Under the instigation and able planning of the Ladies' Visiting Committee and the Service League, the Coffee Shop between Baker and the Chapel has become a reality.

The Jessie Harding Award for outstanding volunteer service was made on December 3 to Mr. Henry Cotton. Ether Day was celebrated in the customary fashion, with Elliot L. Richardson representing the Trustees, by the awarding of service pins to devoted employees and staff of the Hospital, who have given from five to fifty years of continuous service.

The Trustees were greatly pleased that Harold D. Hodgkinson, a member of the Corporation, accepted leadership of the December appeal for three new and very much needed operating rooms, which are to constitute such an important part of the new North Building.

Mr. Phillips Ketchum, who served as Trustee since 1928, submitted his resignation, which was accepted with deep regret. For half a lifetime, his indefatigable efforts and wise counsel contributed invaluably to the welfare and development of the Hospital. His place was filled by Mr. Elliot Richardson, and

Mr. Ketchum was appointed Associate Trustee where, happily, his rare devotion to the Hospital continues to be available to the Board.

The position of Vice-Chairman of the Board was created by amendment to the Rules of the Trustees and Mr. John E. Lawrence was appointed to this position.

The Board welcomed the valuable services of Mr. H. Brooks Beck, appointed by Governor Peabody; Mr. George Putnam was appointed Associate Trustee.

Dr. Robert H. Ebert, formerly Professor of Medicine and Chief of the Department of Medicine at Western Reserve University, was appointed Chief of our Medical Services, effective January 1, 1964, on leave of absence until July 1, 1964, and Jackson Professor of Clinical Medicine at the Harvard Medical School.

Dr. Dale R. Lindsay, who has had broad experience at the National Institutes of Health as Chief of the Research Grants Division, was appointed Deputy to the General Director for Research Administration to coordinate the entire research of the Hospital.

Dr. Samuel Silverman was appointed Director of Clinical Psychiatry, McLean Hospital, September 1963.

The tragic death of President John Fitzgerald Kennedy brought great sorrow to the entire hospital family. President Kennedy had been a member of the Corporation of the Hospital since 1947 and we record our gratitude for his generous personal interest in the Hospital over this long period. President Kennedy was greatly interested in the problem of mental retardation and we hold in grateful rememberance the establishment in 1960 through the Kennedy family foundation of the Joseph P. Kennedy, Jr. Memorial Laboratories for Mental Retardation at the Massachusetts General Hospital.

Dr. Donald S. King, a graduate of the East Medical Service, who since 1924 had served on the Staff through the various grades until 1950 when he was made a member of the Board of Consultation, died August 30.

Dr. George Gilbert Smith, a graduate of the West Surgical Service in 1909, served on the Urological Service as a staff member and was appointed Chief of the Service in January

1933. He was on the active Staff for more than thirty years and became a member of the Board of Consultation in 1945. His death occurred on September 19.

Dr. Joe Vincent Meigs, a graduate of the East Surgical Service in 1921 and a member of the Staff since August 1922, was Chief of the Gynecology Service from 1942 to July 1, 1959, when he was appointed a member of the Board of Consultation. Death terminated his long career of outstanding service to the Hospital and the community on October 24.

Dr. James D. Ayer, first appointed to the Staff in 1911, served as Chief of the Neurology Service from June 1926 for two decades. In July 1946 he was appointed a member of the Board of Consultation retaining a keen interest in all matters connected with the Hospital until his death on October 25.

Dr. Walter Bauer, appointed Medical Resident in 1924, served the Hospital with unparalled devotion for almost forty years. In 1951 he became Jackson Professor of Clinical Medicine at Harvard Medical School and Chief of the Medical Services at Massachusetts General Hospital, which positions he held at the time of his death. His long and distinguished career was brought to a close on December 2.

Mrs. Nathaniel W. Faxon, wife of the former Director, died December 25. She had served on the Ladies' Visiting Committee since 1949 and for many years volunteered her services in the Hospital Archives.

FRANCIS C. GRAY
FRANCIS O. SCHMITT
For the Trustees

Report of the General Director

IT is an honor to submit the Annual Report of the hospital for the year 1963, my second as General Director.

The emergence of the hospital as a health center has been occasioned by the successes of medical science. The doctor has seen himself change from an intuitive, independent artist, far-removed from the hospital's inadequate "terminal illness facilities" to a man newly empowered by the natural and social sciences, heavily involved in what are now facilities capable of terminating most illnesses successfully. The high expectations of the patient have been matched by equally high costs. As his expectations are relentlessly fulfilled by the advance of medical science, the frustrations of a parallel rise in costs coupled with a depersonalization and discontinuity of the doctor-patient relationship due to specialization has led doctor, patient and politician into the public arena, for a series of continuing debates. The cacophony has been joined by the drug houses, commercial insurance companies and the Blue Cross, and by the experts of other disciplines, such as the economists and the sociologists. The point of least resistance and greatest agreement seems to be that hospital costs are high and that it is "the hospital's responsibility" to do something about it. Simultaneously it is expected to maintain its continuing improvement professionally and to compete successfully in the higher cost labor market.

The hospital's responsibility to the community was explored in a series of 15 lectures given weekly at the Massachusetts General Hospital from February through May this year and sponsored jointly by the Lowell Institute. The lecturers were acknowledged leaders in their fields of interest and came from all parts of the country. What were some of their conclusions?

1) Medical education has concerned itself mainly with the biological mechanisms of disease and has neglected the social and economic problems of medicine and hospitals. Preventive medicine and public health disciplines should be represented in the teaching hospital and contribute to the education of the

physician. The hospital should extend its teaching programs to those community hospitals and physicians not affiliated with a teaching hospital.

2) The teaching hospital is fulfilling its acute curative function but has not provided for improvement or standard setting in the after-care of the mentally dis-eased, the chronically ill and the aged population. Family health services, home care programs, nursing and convalescent home care have received but scant attention and are far off the mainstream of university and hospital staff interest. These are promising areas for future improvement.

3) The health resources of communities should be better understood. Joint planning by all the social agencies concerned directly or indirectly with the community's physical and mental health should be undertaken and has been a long time aborning on a voluntary basis. United Community Services (which include recreation and education, as well as hospitals), the Churches, the Schools, the Courts, Public Health facilities, nursing and convalescent homes, and the hospitals should develop the mechanism whereby regional, cooperative planning can be accomplished.

4) The increasing interdependence and collaboration of Federal Government and voluntary hospitals in the provision of health services has thus far been a fruitful one, and will doubtlessly expand in the future. Particularly good examples are the Hill-Burton program for the construction of hospitals and health facilities, and Federal support of medical research, whose massive development and impressive contributions would have been impossible on a private basis. (Financial arrangements between hospital and State have been far less satisfactory, as will be reviewed below.)

5) A review of the American social security system and its implications for health and medical care programs brought the prediction that the social insurance principle would be applied increasingly to meet the costs of medical care particularly as regards the financially and physically vulnerable aged population. The inadequacies of the present Kerr-Mills bill were enumerated and the interesting observation made that there was

more danger of governmental control in this legislation than in the proposed use of the Social Security mechanism.

6) The hospital of tomorrow will see increasing costs, increasing use of computers and automation, a possible 7 day work-week with "week-ends" staggered throughout the week, and full regionalization of functions and facilities. The individual patient and his personal care must remain the central and primary interest of the hospital.

There were interesting and stimulating ideas and they should be debated actively by the hospital family. The attendance remained between 200 and 300 attesting to the tremendous importance the public attaches to hospitals and medicine. The Lectures were reported faithfully and extensively by an enlightened press, and will be published in a book by the Harvard University Press this year.

Turning to another important event, I believe it is agreed generally that an institution must have a clear view and a set policy as regards its support, both moral and financial. Agreeing that the present condition of hospital financing had reached an unhealthy state of muddle, the Trustees appointed a committee of Trustees and Administration to study and make constructive recommendations regarding the present state of costs, deficits and reimbursements. After many months of hard work, discussing and unraveling an extremely complicated condition of hospital financing the Trustees agreed to a general statement of policy which has been distribtued widely both within and outside the M.G.H. It would be wise to review here the background of their deliberations and the ultimate recommendations which have been made to the Commissioner of Administration of the Commonwealth of Massachusetts.

The word "voluntary," as applied to institutions, dates from 1745, and is described in the Oxford Universal Dictionary as "maintained or supported solely or largely by free will offerings or contributions, and free from State interference or control." Until the turn of the twentieth century the private hospital system in this country was totally voluntary and private subscription and endowment income was more than sufficient to cover the cost of the institution's charitable work in the community. This state of affairs was to change rapidly as a con-

sequence of the introduction of science in medicine followed inevitably by a steadily expanding applied technology—all of which was to culminate in the emergence of the hospital as a "health center" and at steadily rising costs to the community. As a result of the discovery of ether anesthesia, the carbolic acid spray and ultimately antibiotics, the professionalization of nursing, the continuous advance of surgical techniques, the discovery of x-rays, and the development of specialization and full-time, hospital-based department heads, the hospital changed from a house of despair for the impoverished sick to a house of hope for all social and economic classes. With rising costs and rising expectations, the community and society at large turned during the 1930's toward more *formal* plans for insurance against catastrophic illness and concerted effort to assume their responsibility for the provision of social welfare. Thus the Blue Cross system of indemnity against hospital costs was established, the Social Security Act of 1935 was legislated, establishing State and Federal responsibility in health matters, organized voluntary philanthropy was begun (Community Chest, etc.), and on the local scene, the Baker Memorial Hospital was built to protect the middle-income group from excessive or unreasonable hospital charges and doctors' bills.

By 1940 the Massachusetts General Hospital Treasurer's income (which is largely endowment income) was $720,000 and more than adequately covered the free work, which in that year amounted to $434,000. With rising costs Treasurer's income was progressively less able to cover free work and by 1960 had *doubled* while "free work" had increased nearly seven-fold. The United Fund struggled to help but was able to distribute only $160,000 to the Massachusetts General Hospital in 1962, which was one thousand dollars less than we were given in 1940. The best solution to the increasing dilemma was to ask paying patients and patients covered by health insurance to make up the difference.

The excess of expense over available income was due to two factors: 1) inadequate Welfare reimbursement for the care of the medically indigent and 2) free care to those who could not pay the bill, directly or indirectly through insurance and who could not qualify for State Welfare programs. The Trus-

tees took steps in 1947 to correct the inequities of inadequate Welfare reimbursement by charging Welfare patients what their care cost the hospital instead of billing for the allowable Welfare cost. Thus in 1947, the Department of Public Welfare allowed $6.00 when our costs were $14.00 per day. Last year we were allowed $35.66 when our costs were greater than $44.00 per day.

The Trustees' review and statement of policy was prompted by three considerations: 1) the persistence of inadequate Welfare reimbursement, 2) the request of the recently created State Commission on Blue Cross Rates and Hospital Costs for such a statement relating to the financial plight of hospitals in this State and suggested methods of reimbursement, and 3) the recent exclusion of Blue Cross Comprehensive Contract holders from the portion of the hospital's charge which provides for the (net) free care of the hospital (after the use of endowment and United Fund income). The broader issue was to clarify the sources and subdivision of responsibility for reimbursement for the services that the hospital provides its community. Continuing and increasing deficits will result in the erosion and ultimate elimination of endowment income, followed necessarily and inevitably by increasing inability of the hospital to supply the services that the community wants and needs.

Briefly stated for the fiscal year ended September 30, 1962 the amount of care given to the community for which the hospital was not reimbursed cost the hospital $2,402,000. Of this amount $1,374,000 represents care given in the Emergency Ward and the Clinics to ambulatory patients. As related to the in-patient area, over $800,000 was lost due to inadequate reimbursement for Welfare patients and over $500,000 represented free care given to patients who could neither afford to pay their bills nor qualify for the State's Welfare Program.

The State's Division of Hospital Costs and Finances and the Commissioner of Administration have for years arbitrarily set ceilings of reimbursement which are always below the hospital's cost of caring for Welfare patients. Hospitals in this State have never received full reimbursement of costs for a variety of reasons including the limited tax funds subject to other competing priorities, poor understanding of or refusal to under-

stand the necessarily larger costs of teaching hospitals, and finally, a feeling by Welfare agents that their role is served best by being a with-holding penurious watch dog and their belief that hospital costs can be kept down if the reimbursement rate is kept down. Furthermore, the administrative practices in setting such rates of reimbursement have been arbitrary with an inadequate appeal mechanism and were recently declared illegal by the Supreme Court in a suit brought by the Massachusetts General Hospital against the State. The present formula used by the State for determining reimbursement for Welfare patients is guaranteed *not* to give the hospitals their costs . . . *ever.*

As hospital costs have risen, so have the costs of caring for the medically indigent, and the losses for caring for Welfare patients as well as those losses due to free care have reached staggering proportions. As stated above, endowment funds and those given to hospitals by the United Fund have been far outstripped by such expenses and the only solution has been to overcharge paying patients and their insurance companies. Some thought this a satisfactory solution until the State, which has Comprehensive Blue Cross insurance for its employees, ruled recently that the Blue Cross contract for Comprehensive care would allow only costs and *no* added reimbursement to help share the cost to the hospital of "net" free care (i.e. that amount of free care not covered by (or in excess of) endowment income and United Fund allotment).

The Trustees agreed that this tangled skein of responsibility and irresponsibility for the financial health of the hospital must be unravelled and then equitably rewound so that all the outside paying agents and segments of the community they represent may assess and assume their full responsibility. Frank McKinney writing in 1926 in "Hoss Sense and Nonsense" said, "When a fellow says it hain't the money, but the principle o' the thing, it's th' money." In this case, it's both principle and money.

To meet this dilemma and to correct it, a 21-page document was prepared by the Administration and Trustees which analyzed the financial arrangements of the hospital in detail. The conclusion of the report states, "We would like to recommend

that attention be concentrated on the two biggest deficit producing areas, thus clearly identifying them as the roots of the problem:

a. "*Public Welfare*: Here in such matters as up-dating figures in cost formula, eliminating arbitrary discounts for service patients, giving consideration for ancillary utilization, and providing for special nursing care, the essential adjustments can be made within the framework of the present statute.

b. "*Free Care*: The point here is not to argue the question of whether or not this is a proper element of cost, but rather to establish the fact that it *is* a necessary service and overall responsibility of the community. This will enable broadest possible distribution of that part of the Free Care load not covered by either United Fund or endowment income. A change in the present statute will be necessary so that Blue Cross subscribers can assume their proportion of community responsibility."

The Administration is busily engaged in implementing this policy statement at the present time.

Meanwhile detailed planning on the general surgical and special services building so desperately needed by the hospital is progressing. The Trustees have agreed to the construction of a building to cost $8.7 million at current prices with an additional $750,000 to be provided for a radiotherapy facility in order to provide 1) centralization and expansion of surgical facilities, 2) expansion and up-dating of facilities for all the laboratories devoted to patient care (clinical chemistry, bacteriology, and blood bank), 3) expansion of space for diagnostic radiology and as noted above, provision for the modern heavy machinery of radiation therapy, 4) expansion of kitchens, dietary areas and employee facilities, and 5) the centralization of admitting and discharge procedures and general administrative practices. The present schedule calls for beginning construction in June 1965.

The much needed x-ray unit in the White Building on the ground floor adjacent to the Emergency Ward is nearly completed; and the new Coffee Shop has more than proven its social and decorative value to the institution. We are about to break ground for a new Cardio-Pulmonary Center facility and are at the present time enlarging and improving the Acute Respiratory Care Unit on the second floor of Phillips House. X-ray machines are being added and facilities improved on

Baker 1 and 2 so that in-patients will stop at Baker 2 for their examinations and out-patients will remain on the first floor of the hospital. We are acutely aware of the parking problems that continue to mount in the City of Boston and which will become quite serious for us as land is redeveloped around the hospital. We are at the present time looking into the possibility of constructing an 800 car garage on our own land on the east side of Fruit Street.

Meanwhile in our continuing attempt to improve the communication of ideas and information about the hospital we have initiated a monthly meeting with all the Service Chiefs where hospital plans and problems are discussed and the latest news about the hospital shared. Similarly, the General Director now meets regularly with the Chief Residents of all the Services in an attempt to discuss some of the overall hospital problems and administrative decisions so that this large group of individuals can be in a better position to help the hospital in these crucial matters. The M.G.H. Associates have arranged weekly lunches for groups of the practicing staff at which hospital problems are discussed and the most recent planning activities and information passed on. These lunches have proved valuable and will be continued. This was a most constructive idea of the Executive Committee of the M.G.H. Associates, which is sponsoring the lunches.

The M.G.H. *News* has undergone a marked change and expansion under the new editorship of Mr. George Jacobsen, in keeping with attempts to improve communication and understanding.

By tradition a certain number of reports have apppeared in the Annual Reports of the Hospital for many years. It seemed to me desirable that reports of other Departments be included from time to time. I have included the report of the Department of Medicine written by Dr. Alfred Kranes this year. I should like at this point to express the sincere thanks and grateful appreciation of the entire hospital to Dr. Kranes who stepped in at a most difficult time in the life of the institution and helped the hospital and the Department of Medicine run smoothly during Dr. Walter Bauer's illness and following his death to the appointment of Dr. Robert Ebert.

The coming year will find us turning increased attention to 1) the problems of collective bargaining for nurses and unionization of hospital employees, 2) attempts to integrate private patients into the teaching function of the hospital as our service population continues to dwindle, 3) the whole problem of tenure appointments at the M.G.H. and 4) the new curriculum of the Harvard Medical School which has many implications for the hospital as a teaching institution, 5) the issues raised by the Lowell Lectures outlined above, and 6) implementation of the Trustees' policy regarding reimbursement stated above.

Dr. Robert H. Ebert, John H. Hord Professor of Medicine at Western Reserve University, was named Chief of the Medical Services on January 1, 1964, on leave of absence until July 1, 1964. I know I speak for the hospital family when I say how fortunate the M.G.H. considers itself to have such a distinguished man leave such a distinguished post to come toil in the vineyards of the M.G.H. In addition to the traditional and conventional interests, Dr. Ebert also has evinced great interest in the problems of teaching with private patients, as well as the whole problem and dilemma of the ambulatory clinic system of the teaching hospital. He plans to work in the Clinic himself, an important and significant contribution in itself.

Dale R. Lindsay, Ph.D., has assumed his duties as Deputy to the General Director for Research Administration. Dr. Lamar Soutter who was Associate Visiting Surgeon and Chairman of the hospital's Committee on Teaching and Education has resigned to become Dean of the new University of Massachusetts Medical School.

In closing I would once again like to thank the entire hospital family for their help and for their never ending stream of constructive ideas and suggestions for the improvement of the hospital. The volunteers of our many interested organizations have continued to increase their contribution to the hospital to its continuing benefit.

JOHN H. KNOWLES, M.D.
General Director

Report of the

General Executive Committee

ONE of the functions of the General Executive Committee is to advise the General Director and Trustees on professional affairs, and an important means of evaluating various professional needs is through the reports of the standing committees appointed by the General Executive Committee. This year we heard reports from the Library, Pharmacy, Emergency Ward, Clinics, Infection Control and Teaching and Education Committees. As a result of these communications we learned more about the activities of these units and were in a position to make recommendations for their improvement. Dr. Raymond D. Adams described the growth of the Treadwell Library and its projected liaison with the Countway Library at the Harvard Medical School. Because of the increase in use and in the number of books and journals certain renovations in the Treadwell Library to allow for expansion are now being carried out. Dr. John B. Stanbury described the procedures necessary for activating a new drug and recommended the adoption of a loose-leaf formulary that would include reports on adverse drug reactions. In the Emergency Ward a post for a full-time medical resident was authorized and, to allow for smoother operation the authority of Dr. Earle W. Wilkins, the Medical Advisor of the Emergency Ward, was extended to include the Overnight Ward. Dr. John F. Burke emphasized the methods employed in the prevention and control of acquired infection including education of the staff regarding their role in keeping up the standards. This report resulted in the appointment of Dr. Howard E. Houghton as Infection Control Officer to the Hospital. On the basis of Dr. William V. McDermott's report it was recommended that the Committee on Teaching and Education place particular emphasis on postgraduate education, not only within the hospital but extramu-

rally at community hospitals and society meetings. This proposal led to a consideration of the use of television as an educational medium and the appointment of Dr. Lamar Soutter as coordinator of such projects. When Dr. McDermott resigned to become Chief of Surgery at the Boston City Hospital, Dr. Soutter was made chairman of this important committee.

The General Executive Committee devoted considerable discussion to the policy and method of procedure for tenure positions in the hospital. It was emphasized that when the facts regarding prospective appointments are reviewed, the care of the patient in addition to research ability must be kept in mind. To fulfill the needs of the hospital the creation of new positions such as a biomathematician, a radiobiologist and geneticist was proposed, and the promotion to tenure level of highly qualified individuals in positions that would not necessarily be self-perpetuating after retirement. During 1963, Dr. John D. Crawford, Dr. Jesse F. Scott and Dr. James P. Robertson (McLean Hospital) were promoted to the position of Associate Professor at the Harvard Medical School and given tenure at both the medical school and hospital.

In line with the policies adopted by the Greater Boston Hospital Council, on July 1, 1963 the members of the House Staff were given higher financial stipends, but rooms and meals were no longer provided. Since most interns and residents are married and live at home when off duty, the increase in salary was very welcome. The discussions leading to these changes were extensive and took into consideration the complicated nature of the many problems which such changes have brought about in the life of the House Staff.

Because of the increased load on their facilities it was recommended by the General Executive Committee that the Department of Radiology be permitted to increase their resident staff from 12 to 15, that the Children's Service add 1 resident to change their training program from three to four years, and that 3 additional residents in Medicine be appointed to increase the care of the patients in the Baker Memorial and Phillips House.

The Research Committee, which was originally set up as a group directly responsible to the Trustees, is now, by vote of the Trustees, a regular standing committee, and its executive com-

mittee will be recommended to the Trustees by the General Executive Committee.

Studies conducted by extramural university departments or agencies on hospital patients and records must be approved by the General Executive Committee. This year various projects were carried out by the Florence Heller School of Social Studies at Brandeis University, the Harvard School of Public Health and the Massachusetts Department of Health.

The effects of third-party payment for medical care on teaching functions is a problem that is being discussed in all teaching hospitals throughout the country. How will the MGH continue to develop a teaching ward atmosphere with a preponderance of private patients? Various plans, all with the prerequisite that responsibility for patient care be given to the trainee, are being worked out. These include increased emphasis on teaching on our existing private services; the setting up of a private patient teaching area for patients of the visiting staff members (with their permission), to be staffed by an assigned group of residents and governed by special ground rules; and the reorganization of the house staff so that the senior residents become junior staff members and take full responsibility for some private patients (especially with third-party payment) who enter the hospital without a private physician. Many experiments will have to be carried out, and it is possible that no plan will be applicable to all services. Although the need for sufficient teaching beds is the all-important reason for the introduction of these plans, it is possible that a tangential benefit in the form of third-party financial payments to members of the house and junior staff will evolve.

The General Executive Committee is very grateful to Dr. Nathan B. Talbot, who replaced Dr. Erich Lindemann on the Committee during his leave of absence as Visiting Professor at Stanford in the spring, and to Dr. Raymond D. Adams, who replaced Dr. Alfred Kranes for the month of May. Because of a change in organization at the McLean Hospital, Dr. Francis L. deMarneffe replaced Dr. Alfred Stanton on the Committee. The Committee wishes to take this opportunity to thank Dr. Stanton for his many years of devoted service. He brought to the Committee a unique ability to pinpoint the essential features

of a project, in addition to his valuable guidance with difficult personnel problems. We wish him well in the pursuit of his research on social psychiatry, to which he has chosen to return.

BENJAMIN CASTLEMAN, M.D., *Chairman*
FRANCIS L. DE MARNEFFE, M.D.
JOHN H. KNOWLES, M.D.
ALFRED KRANES, M.D.
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GORDON S. MYERS, M.D.
ELLSWORTH T. NEUMANN, M.D.
LAURENCE L. ROBBINS, M.D.
PAUL S. RUSSELL, M.D.
RUTH SLEEPER, R.N.
CLAUDE E. WELCH, M.D.
ANNE R. MCLAUGHLIN, *Recording Secretary*

Report of the Medical Service

THE problems of the Medical Service during the past year have been largely the result of the interregnum imposed by Dr. Walter Bauer's serious illness and his consequent inability to keep a tight rein on its numerous activities. That it continued to function as well as it did is a tribute to the organization he built during the period of his stewardship; for, despite new, inexperienced, and temporary leadership, there was no cheapening in the quality of medical care or defections of the staff. Indeed, the loyalty of everyone during a difficult and trying year deserves more than passing notice.

I *PATIENT CARE*

During the year, the ever-increasing demand for private beds, coinciding with a lessened demand for ward beds, caused private patients to appear in the wards in ever larger numbers. That this was no parochial problem was appreciated by all, being due to increased health insurance in lower and middle income groups. To generations of house officers, the invasion of territory which had been considered inviolate, by large numbers of private patients for whom they had no responsibility, posed a serious threat. More threatened than the house officers, however, were the private patients themselves, being ignored by the house staff on duty (since they had no official responsibility), and receiving less than optimal attention from their private physicians who found it less convenient to visit them there. Furthermore, it fostered a degree of coolness between the house staff and the visiting staff who were "usurping" their teaching beds.

To help solve this problem, two meetings of the visiting staff and representatives of the house staff were held during the late winter and spring. Following the second meeting, a committee (Drs. Hibbard Williams, Rabkin, Maloof, Friedlich, and Ellis, Chairman) was appointed to draw up proposals for the better use of private patients in teaching. Their recommenda-

tions were submitted during the summer and discussed by the staff during the fall, with certain anticipated differences of opinion. It was finally decided that private patients in ward beds will be treated no differently from other ward patients, being the responsibility of the ward team, who were to write all the orders, request all consultations, and order diagnostic procedures. Such patients were also to be available to students and for Grand Rounds. That the patient will receive much better care under this system is hardly arguable. An incidental benefit is that it will force the house and visiting staff into a closer association from which they both should benefit.

The burgeoning private patients census in the Baker and Phillips House is another aspect of the same problem, with which the committee named above was also asked to deal. For some years now, as the numbers of such patients increased, while their length of stay shortened, the house staff has been finding it increasingly difficult to do more than keep abreast of the purely mechanical functions of history taking and physical examinations, having little or no time to follow patients or confer with their physicians. As a consequence, they have approached their sojourn on the private service with some misgiving. The visiting staff too has complained of how little in evidence the house officers have been. To improve private patient care, the committee has made a number of suggestions which we are in the process of effectuating. Of prime importance are (a) an increase in the number of house officers assigned to the private service, and (b) keeping all medical patients in one area, preferably on two floors of the Baker. We have succeeded in obtaining three new house officers, all of whom will be assigned to the private service when they arrive on July 1, 1964. The administration has agreed to do all it can to house medical patients on two contiguous floors of the Baker. It is sincerely hoped that this and other contemplated changes on the private service will not only improve patient care but augment its educational content.

Another area of the hospital which has grown steadily has been the Emergency Service. With more and more patients seeking help, a premium is placed on rapid and accurate decisions regarding diagnosis, treatment, and disposition, so that no

unnecessary delays occur. We have been constantly urging our house officers to make such decisions with a minimal amount of study, so that patients may be moved as rapidly as possible. The accessibility of the new X-ray unit, now nearing completion, will greatly facilitate this, but experience teaches us that this will lead to even more patients seeking such care.

After many years of complaining about the inadequacies of ward B3, it is a pleasure to report how well things have been going there since its renovation during the summer of 1962 and its completion later that fall. Most remarkable has been the fact that no flaws in the running of the unit have developed after a year of busy operation. It is a model of efficiency and superb patient care. No estimate of lives saved is possible, but every visiting physician and house officer has his own private roster of patients who would never have left the hospital, were it not for the remarkable professional and nursing accomplishments on ward B3. Although it has been a combined accomplishment, special attention and commendation are due the Nursing Service for a job superbly done. It is not customary in reports of this sort to single out individuals, but it is difficult to refrain from mentioning Miss Regina Craffey, the head nurse, without whom it is hard to imagine B3 functioning as it now does.

A. *Staff*

Overshadowing everything, and casting a pall over every activity of the Medical Service, was the prolonged and serious illness of Dr. Walter Bauer, requiring hospital admission in June, 1962. Suffering from crippling pulmonary emphysema, he had been hospitalized ever since, except for two months at home in the fall of 1962. During the spring of 1963, he again improved for about two months, but once more his condition worsened. Despite his long confinement and extraordinary physical handicaps, his interest in the affairs of the Medical Service was unflagging, and he maintained it with a tenacity that few could duplicate. With his approaching retirement in July, 1964, and made more urgent by his critical illness, an *ad hoc* committee was appointed by the Harvard Medical

School to recommend a successor to Dr. Bauer as Jackson Professor of Clinical Medicine and Chief of the Medical Services at the MGH. Beginning its deliberations in the fall of 1962, it had decided by the following summer to invite Dr. Robert H. Ebert, John H. Hord Professor of Medicine, Western Reserve University, and Director of Medicine, University Hospitals of Cleveland, to the post, and much to everyone's pleasure, he accepted. Presently on sabbatical leave from Western Reserve University, Dr. Ebert will not assume active direction of the Medical Service until July 1, 1964, although he has already made two visits to the hospital, exploring the problems to be faced and getting acquainted with the staff.

During this trying period of Dr. Bauer's illness, Dr. Alfred Kranes was appointed Acting Chief of the Medical Services. So well had the service been built, that it continued to function in first-rate manner despite the limited time he was able to give to its problems. The period between a retiring chief and an incoming one is not one to initiate changes or change directions. On the other hand, time does not stand still, and it has been necessary to make accommodations to the press of change all about.

Dr. Robert H. Jones, Assistant in Medicine and Coordinator of Rehabilitation, Rehabilitation Service, left on September 1, 1963, to spend one year working with Dr. Justus Lehman in the Department of Physical Medicine at the University of Washington School of Medicine in Seattle.

Dr. Lloyd H. Smith, Jr., Associate Physician and Chief of the Endocrine Unit, was given a year's leave of absence beginning in September to be spent in the laboratory of Dr. Hans Krebs at Oxford University.

The following appointments to the staff were made, all Assistants in Medicine:

Dr. David W. Allen	January 1, 1963
Dr. Donald B. Martin	January 1, 1963
Dr. Mitchell T. Rabkin	January 1, 1963
Dr. Kurt J. Bloch	July 1, 1963
Dr. Caesar Briefer, Jr.	July 1, 1963
Dr. Mehran Goulian	July 1, 1963

Dr. Jan Koch-Weser	July 1, 1963
Dr. Richmond Prescott	July 1, 1963
Dr. Edgar Haber	August 1, 1963

The following promotions were approved in February, 1963:

Dr. John C. Angley	from Assistant in Medicine to Assistant Physician
Dr. K. Frank Austen	from Assistant in Medicine to Assistant Physician
Dr. William S. Beck	from Assistant Physician to Associate Physician
Dr. John D. Stoeckle	from Assistant Physician to Associate Physician

With great pleasure we report that Dr. William B. Castle, Francis Weld Peabody Faculty Professor of Medicine, Harvard Medical School, and Consulting Physician, Boston City Hospital, served as James H. Means Visiting Physician for the week beginning September 23, 1963. On September 25 he delivered a lecture entitled "Nutritional Macrocytic Anemias." A keen clinician, an outstanding investigator, and a superb teacher, his visit was an unusually stimulating one to both house and visiting staffs. His week with us was considerably more rigorous than was his custom, since he took part in all phases of the Medical Services' activities, starting at 8 a.m. in the Overnight Ward. He contributed much that was valuable, and a subsequent letter from him indicated his great pleasure during the week here.

B. *House Staff*

Dr. Hibbard E. Williams served as Chief Resident during 1963 and will continue to do so until July 1, 1964, when he will join the Endocrine Unit. He will have served longer in this position than any of his predecessors due to certain peculiarities of scheduling. He has certainly been an unusually effective resident from many points of view. Not only does he possess considerable breadth of knowledge, which he is able to share with ease, but he also has a personal warmth which endears him to others on short acquaintance. He has the enviable qual-

ity of being able to be familiar with the house staff without demeaning himself. We are pleased that he will continue his association with the Medical Service, to which he has much to contribute.

The 1961 Annual Report stated "How long the Medical Service can continue giving good care with the present sized staff has been under careful scrutiny," and concluded with the prediction that more men would be required in the near future. Since then the steady growth of the private service and the Emergency Service has finally made it clear that the present staff was inadequate for the task. After careful study of our needs, and mindful of the necessity of integrating our large private service more meaningfully into our teaching program, a request for six additional house officers was made (three interns and three assistant residents) to begin July 1, 1964. While this was admittedly a large addition, it was felt necessary because of reluctance over the years to keep pace with the increasing load until finally forced to do so. After discussion with the Administration, it was finally agreed to add three men next year and three more in subsequent years if it is still felt to be necessary.

The number of applicants for internship was higher than ever this past year – 180 – almost all of them standing near the very top of their respective classes, so that the annual task of selection continues to be formidable.

C. *Specialty Units*

With one exception, the thirteen specialty units continued to provide excellent consultative service when called upon, and to run outpatient clinics of varying sizes, the largest being those of the Diabetes, Allergy, and Thyroid Units. Since the departure from the Pulmonary Disease Unit of Dr. John H. Knowles in 1962 to assume the position of Director of Medical Affairs and subsequently as General Director, the activities of this Unit have gradually ground to a virtual halt. At first Dr. Regina C. McCormack, Clinical and Research Fellow assigned to the Pulmonary Disease Unit, provided the consultations and interpretations of the pulmonary function tests which the

laboratory continued to do, while Dr. Kenneth Bird took charge of the Pulmonary Clinic. With the departure of Dr. McCormack in July, 1963, Dr. Homayoun Kazemi, one of our third-year residents with previous experience in pulmonary physiology, was drafted to supervise and interpret the results of pulmonary function studies while simultaneously carrying on his duties as resident. This unsatisfactory state of affairs will continue until the anticipated arrival from London of Dr. John West, next Chief of the Pulmonary Disease Unit. His coming is contingent upon the approval of a grant for the erection of a cyclotron, which is to be used in making a radioactive isotope of oxygen. As a result, we have not been able to supply the type of service and care expected, to patients with acute and chronic pulmonary disease.

The diminished activities of the Pulmonary Unit has provided a temporary home for the Catheter Laboratory under the direction of Dr. Charles Sanders. Because their former quarters were required for other purposes, they were moved into the area occupied by the Pulmonary Unit, which is now shared by both. Despite the cramped quarters, the Catheter Laboratory has succeeded in reducing the formerly heavy backlog of patients requiring cardiac catheterization to a reasonable level. During the year 271 catheter studies were completed.

Finally, the Clinical Laboratories, under the direction of Dr. William Beck, Chief of the Hematology Unit, has continued its spectacular expansion in the quantity of work performed.

II *TEACHING*

In subsequent reports we will be able to announce the results of our efforts toward implementing the changes in the Harvard Medical School curriculum during the third and fourth years. Since these are to start in September, 1964, this has been a year of planning. The contemplated changes involve three distinct parts: 1) A twelve week period at the beginning of the third year, called "Introduction to the Clinic," during which the main emphasis will be to develop skill in history taking and physical examination; 2) the clinical clerkship; and 3) an elective

period of five months during which students may be permitted to pursue whatever may interest them under the guidance of an advisor. Since the twelve week period of "Introduction to the Clinic" represents the most radical change, a thoroughly considered plan has been worked out by Drs. Gerald Foster of the Medical Service and Edward Hamlin of the Surgical Service, and presented for discussion to various groups. How effective this plan will prove to be in operation will be reported later. The crucial ingredient in any plan, however, is the quality and enthusiasm of the instructors; for without either, the best plan will fail. The Medical Service is singularly fortunate in this regard because of the unusually able men appointed to the staff during the past ten years. The Medical Administrative Committee has consistently refused to recommend staff appointments to those considered either unsuitable for teaching or not very stimulating.

Planning for changes in the clinical clerkship is also going on, as well as a reconsideration and reappraisal of the elective courses to be offered in the fourth year.

Meanwhile, second and third year teaching has been going on as usual under the supervision of Drs. John H. Knowles and Lloyd H. Smith, respectively. An innovation in fourth year teaching has been the assignment of each student for one week to the Emergency Service. Started early in the fall, this week has turned out to be the highlight of their two months with us. This degree of enthusiasm had not been anticipated.

Postgraduate teaching continues largely in its informal fashion with weekly conferences, rounds, and seminars of one sort or another. The graduate course in Internal Medicine, under the supervision of Dr. Daniel Federman, was given again in June, being attended by seventy-one physicians, who again were both critical and enthusiastic.

III *RESEARCH*

The research effort of the Medical Service continues to expand so that once again the problem of adequate space must be solved. As some of the newer specialty units begin to move in new directions, they find themselves handicapped by lack of

room and the need to curtail or even stifle promising avenues of investigation. This will be especially true of those presently housed in the Domestic Building, soon to be razed for construction of the new North Building. It is unlikely that they will be able to carry on adequately in whatever temporary quarters are erected, but there seems to be no alternative. The space needs of the Cardiac and Pulmonary Disease Units will be satisfied by the erection of the building for the study of cardiopulmonary diseases.

Some idea of the magnitude of our research effort may be gleaned from the money spent. For the Medical Service alone the total cost of research came to $1,961,548, most of it from the United States Public Health Service, and a smaller amount from private foundations. These expenditures do not include those of the Huntington Memorial Hospital. The following table indicates how this was apportioned.

FUNDS AVAILABLE TO UNIT CHIEFS DURING 1963

	Research Grant	*Training Grant*	*Total*
Beck	$60,159	$30,000	$90,159
Bland		39,319	39,319
Field	48,002	33,539	81,541
Hatch	37,500		37,500
Isselbacher	111,921	28,353	140,274
Leaf	78,284		78,284
Krane	89,541	55,457	144,998
Lowell	90,315	30,835	121,150
Page	17,620		17,620
Smith	124,219	30,000	154,219
Stanbury	88,108		88,108
Swartz	107,804	44,780	152,584
Jeanloz	117,385		117,385
Gross	121,307		121,307
Metabolic Research Center Grant	360,315		360,315
Cardiopulmonary Function in Remediable Heart Disease	216,785		216,785
GRAND TOTAL	$1,669,265	$292,283	$1,961,548

The extent of current investigations is too diverse to permit a succinct summary of what is going on in each unit. While no revolutionary discoveries have been made, considerable knowledge concerning the mechanisms and pathophysiology of many diseases has been uncovered, as the following brief summary of what is occupying the attention of a few of the units will indicate.

The Gastrointestinal Unit, guided by Dr. Kurt Isselbacher, is engaged in studying:

1) The mechanism of action of bile salts on the intestinal mucosa and the mechanism of bile salt absorption.
2) The basic defect in acanthocytosis and its treatment.
3) Some aspects of the absorption of medium chain triglycerides and their role in nutrition.
4) The mechanism of the alcohol-induced fatty liver and hyperlipemia.
5) The distribution of disaccharidases in the intestinal tract and the diagnosis of their deficiency.
6) The excretion of hydroxyproline peptides in sprue.
7) Lipoprotein synthesis by the intestinal mucosa.
8) Enzyme change in the liver following experimental liver injury.

The Hypertension Study Unit, under Dr. Lot B. Page, is currently studying:

1) The development of an immunochemical assay for angiotensin.
2) Catechol amine metabolism in patients with orthostatic hypotension and those with catechol-amine-producing tumors.
3) Hypertension and renal vascular disease in an attempt to refine the selection of patients suitable for vascular surgery.

IV *SUMMARY AND RECOMMENDATIONS*

The problems facing the Medical Service during the past year concerned all three of our main functions. In the area of

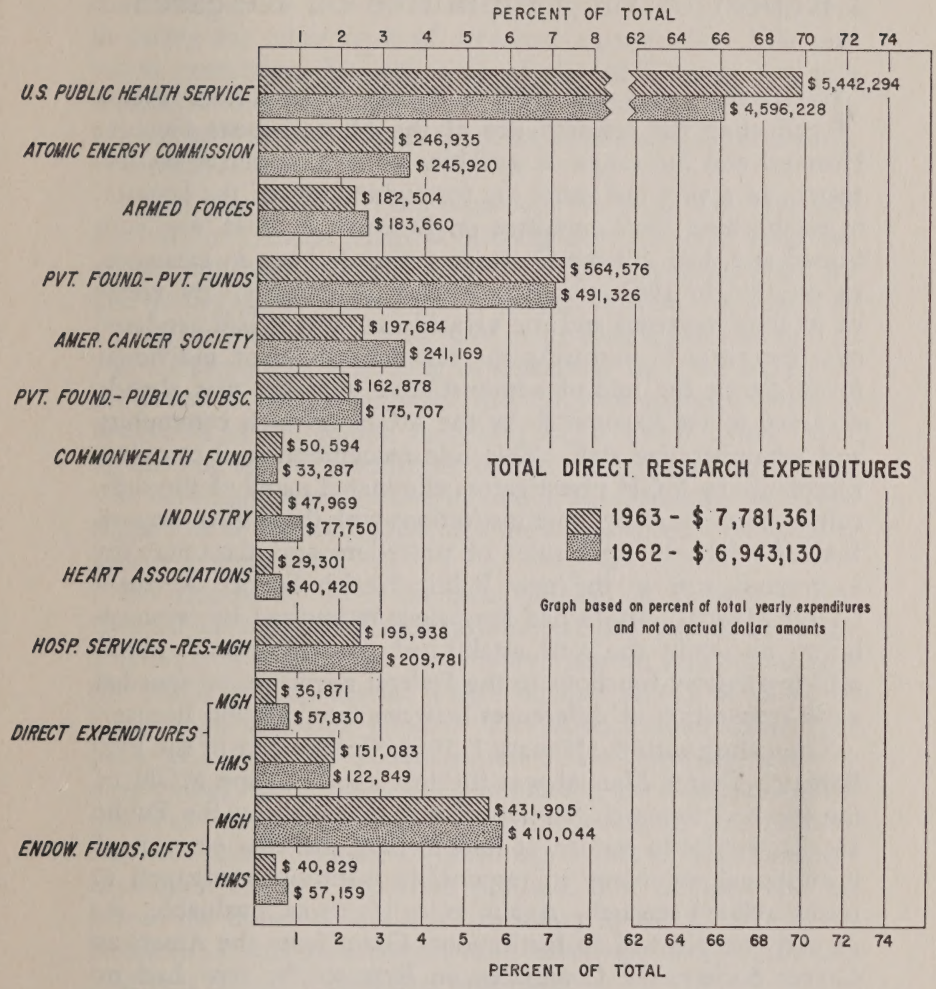
patient care, we have made a beginning in solving the difficulties posed by an increasing number of private patients and a diminishing number of ward patients. This has been done by admitting private patients to the wards, while placing most of the responsibility for their care on the shoulders of the house staff. Steps are being taken for improved patient care and teaching in both the Baker Memorial and Phillips House. The results of our planning to meet the requirements for the revised Harvard Medical School curriculum have been described.

In order to meet our obligation to provide better medical care for private patients and for the increasing number of patients coming to the Emergency Service, it is felt that more house officers may be needed in the future.

ALFRED KRANES, M.D.
Acting Chief of the
Medical Services

Direct Research Expenditures

For 1963



Report of the Committee on Research

THE year 1963 witnessed a stream of important events affecting the research life of the Massachusetts General Hospital and the range of activities of its Committee on Research. In a very real sense the foresightedness of the hospital in establishing the Committee on Research in 1946 was confirmed and, had not the Committee already been in existence, its creation in 1963 would have been a necessity. By virtue of its long existence and the valuable services it had rendered over the years in nurturing the research efforts of individual investigators, the role of administrative guidance was already accorded to the Committee by the MGH research community and administrative staff. This role recognition and complete acceptance by MGH investigators eliminated many of the difficulties experienced by other institutions with the sudden imposition of relatively rigid rules of procedure and accountability as promulgated in the new Public Health Service Research Grants Manual. MGH had long since recognized its responsibility; no doubt the well established participation of MGH staff in advisory functions to the Federal agencies had speeded early recognition of differences between freedom and license.

Coinciding with the January 1, 1963 effective date of the PHS Research Grants Manual was the first award to the MGH of the General Research Support Grant, designed by the Public Health Service to restore, at least in part, the vital element of institutional autonomy to responsible institutions engaged in health related research. Again, experience was invaluable. As an early recipient of an Institutional Grant from the American Cancer Society, the Committee on Research by now had no qualms in evaluating applications for allocations from either of these two self-administered funds. A new dimension in institutional autonomy, however, was permitted the Committee on Research in using the General Research Support Grant to establish new enterprises necessary to the growth and development of the MGH research community, as well as more prosaic

utilization to avoid unnecessary delays in funding research, in conducting pilot studies, in supporting central facilities, and in caring for other types of recurrent emergencies. The provision permitting the carry over of unused General Research Support Grant funds has allowed the Committee on Research to proceed with developmental plans in an orderly and deliberate fashion.

Other plans laid in 1962 bore fruit in 1963. The National Institute of General Medical Sciences contracts with Bolt, Beranek, and Newman and with the MGH in developing the first prototype of a Hospital Computer System accomplished a great deal during the year. One of its most significant aspects was an auspicious beginning in educating the staff regarding the potential use of computers through staff-attended seminars conducted by Dr. Jordan Baruch of BBN, and individual conferences on specific research needs and uses. Certain equipment was developed and installed by late in the year with an operational link to be established with the new computer complex to follow early in 1964.

On August 1, 1963, the new position of Deputy to the General Director (Research Administration) was filled by the appointment of Dr. Dale R. Lindsay upon his retirement from the Public Health Service where he had served as Chief of Division of Research Grants. This appointment, which was planned in 1962, is in recognition of the growing need for developing, establishing, and maintaining good administrative practices related to separately budgeted research. The hospital has been most fortunate in obtaining a man of Dr. Lindsay's distinction for this important position. Dr. Lindsay also assumed the duties of Executive Secretary to the Committee on Research, a post most recently and effectively occupied by Dr. Adelbert Ames, III on a part time basis.

On November 7, the dedication of the Cyclotron Biomedical Building at Harvard University culminated the effort begun the previous year by Dr. William M. Preston, Chairman of the Department of Physics at Harvard University and Director of the Cyclotron Laboratory, and Dr. William H. Sweet, Chief of the Neurosurgical Service at MGH and Associate Professor of Surgery at Harvard Medical School. The varied research proj-

ects now in progress at the facility are under the direction of Dr. Raymond N. Kjellberg, Assistant in Neurosurgery at MGH and Associate in Surgery at Harvard Medical School.

With the death on December 2, 1963 of Dr. Walter Bauer, the hospital's research community lost one of its most distinguished and effective leaders. In addition to his eminence as a clinician and teacher he was truly one of the giants in medical research, and his departure from the scene at MGH is sorely felt by all of his research colleagues.

PAUL S. RUSSELL, M.D.
Acting Chairman
Committee on Research
(for Oliver Cope, M.D.
Chairman)

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Howard Ulfelder, M.D., *Chief of Staff*

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Celso-Ramon Garcia, M.D.
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Langdon Parsons, M.D.
George S. Richardson, M.D.
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Bartlett H. Stone, M.D.
Chiu-chen Wang, M.D.

Suraj Prakash, M.D., *Research Fellow in The Vincent Memorial Hospital Laboratory*
Miss Frances C. Grady, R.N., *Assistant Director in Charge of Nursing*
Miss Alberta M. Nigro, R.N., *Nursing Service Supervisor*

Vincent Memorial Hospital
Report of the Board of Trustees and the Board of Managers

DURING the past year the Vincent Memorial Hospital lost two of its most dedicated and devoted friends, Mr. Henry C. Everett, Jr., who joined the Board of Trustees in 1919 and Dr. Joe Vincent Meigs, who became a member of the Hospital Staff in 1925. Rather than supplement the reports of the Chief of Staff and the Treasurer, which reflect most of our activities of the past year, it seems appropriate to spread upon the records a few of the many thoughts about these two men which have been expressed during recent months.

Henry C. Everett, Jr.

June 6, 1891 - July 16, 1963

The following resolution was passed at the September meeting of the Board of Managers of the Vincent Memorial Hospital.

"For forty years Henry Coffin Everett, Jr., served on the Vincent Memorial Hospital Board of Trustees; for seven years as Treasurer, and later for twenty years as President. He was a trustee in the truest sense of the word. Under his prudent counsel, selfless devotion and wise foresight, the small hospital became part of a great one, without losing its identity, to the advantage of both.

"Although he resigned in 1959 he continued his interest both in the Club and the Hospital. He was always ready to give his time, help and advice, when, and only when, it was asked. Few organizations are so fortunate in their friends, few friends will be so greatly missed."

Joe Vincent Meigs, M.D.

October 24, 1892 - October 24, 1963

The Reverend John B. Coburn at the Memorial Service for Dr. Joe Vincent Meigs said in part:

"Of his pre-eminence in his field it is not necessary to speak; nor of the recognition given him by his peers throughout the medical world. His students and colleagues know that the giving of his knowledge was the giving of himself; that the contagious enthusiasm for his subject, tempered only by the practical question, 'Will it work?' was his mark as a teacher; and that his single-mindedness not only determined his own life but also pushed back a critical frontier of medical knowledge. He combined, it has been said, 'in an extraordinary degree the inventive mind of the scientist, the dexterity and stamina of the surgeon, and the compassion of the family doctor . . . gifts of head, hand, and heart.'

"He loved his profession; and he put himself under its discipline. He loved people; and he put himself at their service. He loved life; and we all have lived better lives because of him."

They will long be remembered by the Vincent Memorial Hospital.

Charles F. Hovey, *Chairman*
For the Board of Trustees
Muriel G. S. Lewis, *President*
For the Board of Managers

Vincent Memorial Hospital
Report of the Chief of Staff

THE sudden death of Dr. Joe V. Meigs on October 24, 1963 overshadows all other events of the past year. He sustained a massive coronary occlusion while returning from a meeting in Rochester, New York. The evidence of respect and affection shown for him has overwhelmed even those of us who knew him best and the Vincent Memorial Hospital mourns the man who, single-handed, guided it through its metamorphosis from a dedicated community hospital to a full-time academic unit in the galaxie of the Harvard Medical School.

The hospital during the past year, I am pleased to report, has flourished. Occupancy has been higher than ever before with a most noticeable increase on the ward service of about twenty per cent. Visits to the Ambulatory Clinic were correspondingly more numerous and at this moment the concern we have felt for the future of our training programs is in remission. Major renovations on the second and third floors have kept pace with this increased patient load and all units are now four beds or smaller in size and the two sun porches have been converted into attractive, new, semi-private accommodations. The former cystoscopy room on V-3 has been remodelled into a fine examination-treatment room and a separate visitors' room, the floors re-covered; and thus the work begun when the third elevator was installed is now finally concluded on our in-patient areas.

Your hospital staff has been called upon for its annual generous contribution of time in the teaching programs. Each member has, in addition, participated in various meetings locally and at a distance; a year-end bibliography of sixteen publications testifies to their continued productivity in clinical and research affairs. The Harvard Medical School Postgraduate Course in Gynecology was again presented at the Vincent Memorial Hospital from September 16 - 29. It was over-

subscribed as in the past and again enthusiastically received. The Hospital Board and the Club Board contributed the touch of personal attention which has made so much difference to our students every year since the beginning of this exercise.

Clinical recording and reporting continues uninterrupted on our cases of malignant disease, stress incontinence of urine, and infertility. Our program for research has advanced along the long term pathways planned for it in the areas of human pituitary gonatropin study, and patterns of steroid biosynthesis and metabolism in the ovary. These have been supported by extended grants from the United States Public Health Service. Individual short term experimental work has been carried on in the hormone treatment of endometriosis, the treatment of advanced cancer with new agents as they become available, and the use of modern electronic computers in the combination of data, chemical and biological. Our research fellow, Dr. Suraj Prakash, has extended his histologic studies on endometriosis and the effect of steroids on the oocyte population of the rat ovary, currently under support by the Medical Foundation of Boston.

May I close with a word of praise for the day-to-day job done by many who contribute in uncounted ways to the efficiency and success of the hospital in all its departments.

HOWARD ULFELDER, M.D.
Chief of Staff

Report of the Department of Pathology

THE Pathology Laboratory at the Massachusetts General Hospital is one of the few in the United States that has detailed and indexed autopsy records going back to the 19th century. From the opening of the Hospital in 1821 until 1896 the findings of the postmortem examinations were handwritten in the patients' records. Since the opening of the Allen Street building in 1896 under the directorship of Dr. James Homer Wright, the autopsy records have been bound in separate volumes and kept together in the Pathology Department, where the diagnoses are indexed and catalogued. It is not surprising, therefore, that the Advisory Committee to the Surgeon General of the Public Health Service, which was appointed by President Kennedy to study the effects of smoking on health, solicited from us data relating to cancer of the lung before 1930, the year when the incidence of cancer of the lung began to increase. Dr. John B. Blennerhassett, our Chief Resident went over the records of the 5,300 autopsies performed at the Massachusetts General Hospital between 1896 and 1930, a period of 35 years, and found only 17 cases of cancer of the lung. In the series of 5,000 autopsies performed during the five-year period from 1956 to 1961 there were 172 cases. These figures show a tenfold increase in the number of patients dying as a result of cancer of the lung in contrast to an increase of 1.7 times in deaths from all other types of cancer.

The year marked the initial excursions of our weekly clinicopathological conference into the field of television. The first was a conference presented over the South Carolina Educational Television Network at the invitation of the Medical College of South Carolina, with an MGH case being presented by Dr. Lloyd H. Smith, Jr. and Dr. Austin L. Vickery, Jr. The video tape of this program has since been televised in several other areas of the country under the sponsorship of various postgraduate educational facilities. A clinicopathological conference was also chosen to inaugurate the participation of a Boston hospital in the use of regional television as an educational technic, and a case discussed by Dr. John H. Knowles, Dr. Benjamin Castle-

man and Dr. Jack Dreyfuss was telecast by WGBH, Channel 2, during its regular presentation at the MGH. This televised conference was part of the dedication exercises for the opening of the Falmouth Hospital and the facilities provided for an exchange of questions and answers between members of the MGH and the Falmouth Hospital staffs.

During the year Dr. Scully and Dr. Castleman were asked by the World Health Organization to go to Geneva to consult with the Cancer Division. Dr. Scully served as chairman of an Expert Committee organized to formulate a classification of ovarian tumors that might serve as a basis for an international study. Other members of the Committee represented France, England, Brazil, Denmark and West Germany. Within the near future, centers for the collection and study of ovarian tumors will be established in various countries throughout the world. In July, Dr. Castleman and Dr. Hamperl of West Germany advised the World Health Organization on methods of improving the standards of pathological services to help in the care of the cancer patient in the newly developing countries by the establishment of Tumor Diagnostic Centers similar to the Tumor Diagnostic Service organized in the Commonwealth of Massachusetts many years ago.

In the summer of 1963 we accepted 7 first and second year medical students as summer trainees in pathology. These students were in addition to our annual program for post-sophomore, full-year fellowships for training in pathology and research, in which we have had 2 trainees during each of the past few years. The summer trainees participated in the regular conferences of the Department and also worked on individual projects with one of the departmental investigators. With histochemical technics one student studied the changes in the oxidative enzymes of bone as modified by fractures and the healing of fractures. Another worked with the quantitative estimation of glucose-6-phosphate dehydrogenase activity in the livers of salt-depleted animals. A third counted mast cells in skin biopsy specimens from diabetic and prediabetic patients. Another assisted in the investigation of the possible importance of altered vascular permeability in the development of allergic thyroiditis in the guinea pig. The other students were engaged in projects

correlating function and structure in the central nervous system and in various tumors.

The histochemistry unit under the direction of Dr. Richard B. Cohen has been extremely active. Their current studies include the effect of sodium depletion on the enzymes of the pentose phosphate pathway of the adrenal glomerulosa, the effect of angiotension, ACTH and aldosterone on the adrenal cortex of normal and sodium-depleted animals, in collaboration with Dr. John D. Crawford and Dr. Bernard Kliman, and the role of a pyridine nucleotide transhydrogenase in the metabolism of the acinar cells of the pancreas, carried out by Dr. Hugh Wolfe, a research trainee. In a study of Hurler's syndrome Dr. Wolfe utilized a new technic that he devised for the histochemical demonstration of acid mucopolysaccharides, which heretofore have been too water soluble for demonstration in a histochemical reaction.

In the field of thyroid research Dr. Vickery, and Dr. E. Dillwyn Williams, a research fellow on leave from the London Hospital, compared the biological effects of I^{131} and I^{125} on the rat thyroid and found qualitative differences in the growth and functional responses of the irradiated glands. These variations were considered related to the entirely different beta energy spectrums of these two isotopes, resulting in a differential of radiation delivered to the thyroid-cell cytoplasm and the nucleus. In other studies Dr. Williams and Dr. Vickery made observations on the early stages of iodide concentration and binding capacity in the thyroid gland, utilizing I^{125} and specialized autoradiographic technics for quick frozen tissues.

Dr. Scully, in conjunction with Dr. Suraj Prakash and Dr. Janet McArthur, is studying the effects of steroid sex hormones on ovular atresia, a project that has implications not only in relation to ovarian physiology, but also to the widespread clinical use of these drugs at the present time. Dr. Martin H. Flax, recently appointed a Fellow of the Medical Foundation, in collaboration with the Allergy Unit, has isolated a highly active bacillary fraction of mycobacterial adjuvant that is responsible for its potentiation of immunologic responses to incorporated antigens and has demonstrated experimentally the consequent production of auto-immune disease. They are now studying the

mode of action of this material. He is continuing studies of experimentally induced allergic thyroiditis, using a combination of metabolic and morphologic technics. Dr. Roth has initiated attempts to isolate pure parathyroid secretory granules from human parathyroid adenomas. His studies of the fine structural alterations in the hair follicle during the various phases of the growth cycle and in several human and experimentally induced disease states were continued.

Dr. Leonard Atkins returned to the Department in December after a leave of absence for a year and a half at the Institute for Medical Genetics in Uppsala, Sweden. While there he investigated the pattern of chromosomal DNA replication in cells with abnormal sex chromosome constitutions as well as in human triploid cells. He plans to continue this type of investigation, utilizing material obtained mainly from patients with mental retardation. Because of expansion of the field of cytogenetics and with the collaboration of Dr. Raymond D. Adams, we have moved this unit from the Pathology Department to the Kennedy Laboratories on the ninth floor of the Burnham Building where, in addition to his research Dr. Atkins will carry out the requests for karyotype analyses from the Pediatric, Gynecologic and Neurologic Services and from other hospital units. Projected plans include investigation in close cooperation with the Fernald School in the study of chromosome anomalies associated with mental deficiency. While Dr. Atkins was away, Dr. Priscilla D. Taft, who is in charge of the Cytology Unit, fulfilled all the requests for karyotype analyses. During the year such analyses were performed on blood samples from 189 patients, and on skin and other solid tissues from 44 patients. Dr. Taft also carried on the study of DNA synthesis in chromosomes.

The statistics of the diagnostic examinations are as follows:

	1962			*1963*		
	MGH	Outside	Total	MGH	Outside	Total
Autopsies performed	933	211	1,144	955	296	1,251
Autopsy percentage	65.3%			65.1%		
Surgical Specimens	11,459	2,014	13,473	11,670	3,428	15,098
Microscopic Preparations	76,480					91,642
Cytological Specimens			13,606			13,817

BENJAMIN CASTLEMAN, M.D.
Chief, Department of Pathology

Report of the Hall-Mercer Hospital

ALTHOUGH the Hall-Mercer Hospital exists as a unit in the Massachusetts General Hospital complex and as such is integrated with it for purposes of clinical service, a particular effort has been made to strengthen the autonomy of the Hall-Mercer Hospital within this broader framework.

A first annual symposium of the staffs of the Pennsylvania Branch and the Massachusetts General Hospital Branch of the Hall-Mercer Hospital took place on October 16, 1962 at the Massachusetts General Hospital. Speakers for the Pennsylvania unit were: Dr. Per Olof Therman who presented his studies of abnormalities in the serum of psychotic patients; Dr. James J. Dickson, Chief Psychologist, summarized the work of Dr. Ronald D. Wynne on associative processes in normals and schizophrenics; Dr. Sidney Pulver who reported on studies of subliminal perception. Speakers from the Massachusetts General Hospital division were: Dr. Frank R. Ervin who presented his studies of human patients with severe pain; Dr. Jack H. Mendelson who discussed the distribution of exchangeable magnesium in normals and in alcoholic patients; Dr. Harry Olin who discussed his clinical research following up the incidences of neurological disease in psychiatric patients.

During the year, Hall-Mercer funds were used to provide for the hospitalization of twenty patients. The patients thus supported by these funds fall into six classes:

1) *Patients Whose Care Is Combined With Medical Student Teaching*: Our continued interest in developing teaching techniques centered around the tutorial system has been furthered by the possibility of admitting selected patients for evaluation by medical students who could not afford hospitalization here if required to pay for it from their own funds. Five patients fell into this category, three with a diagnosis of depression, two with a diagnosis of character disorder.

2) *Patients With Psychosomatic Disorders*: The study of psychosomatic disorders from the inception of the Hall-Mercer

Hospital here has been one of the focuses of interest. These disorders often require prolonged hospitalization beyond the means of many patients, and the availability of Hall-Mercer funds has enabled us to admit four such patients (one with ulcerative colitis, two with headaches) for study by our staff.

3) *Electric Shock Treatment*: During the past year, electric shock treatment has been added to our therapeutic armamentarium. The use of Hall-Mercer funds has permitted us to hospitalize two patients (suffering from depression) on the service during the administration of a course of electric shock treatments, thus allowing the residents to gain experience with this form of therapy, and aiding in the working out of the therapeutic routines.

4) *Patients With Acute Schizophrenic Reaction*: One of our interests is in learning more about the acute schizophrenic reaction. A number of such patients are brought to our Emergency Ward, but have to be transferred from there to a State Hospital since the patient or his family is unable to afford the required length of hospitalization on our service. The use of Hall-Mercer funds has permitted us to admit and investigate four patients with this disorder during the past year.

5) *Patients For Prolonged In-Patient Psychotherapy*: Although the majority of the admissions to the service remain only three to four weeks for a period of diagnostic evaluation and therapeutic planning, a few are selected for long-term inpatient treatment. For many patients, this would be prohibitively expensive without financial assistance. Hall-Mercer funds have provided for the hospitalization of one patient in this category, a woman suffering from an obsessional neurosis.

6) *Patients Participating In Implanted Electrode Study*: Dr. Frank Ervin has used Hall-Mercer beds to provide hospitalization for four patients who were investigated systematically in his collaborative study with the department of neurosurgery on the use of implanted electrodes in the treatment of intractable pain, movement disorder and epilepsy.

ERICH LINDEMANN, M.D.
Chief Psychiatrist

Report of the John Collins Warren Laboratories of the Huntington Memorial Hospital of Harvard University

RECENTLY viruses have received an increasing amount of attention as probable causative agents in human cancer. The evidence for such a role is almost entirely based upon analogy with several known tumor viruses in mice, rabbits and chickens, plus extensive knowledge of the mode of action of certain bacterial viruses which do not cause an overt infection. In this case the injection into the bacterial cell of viral DNA leads to heritable changes in the host cell which are not inconsistent with continued growth and division, in contrast to the better known bacterial (and animal) viruses which cause the death of the host cell. Infection of tissue culture cells with the mouse polyoma virus is similar in some ways to this quiescent bacterial virus infection, but on the other hand the tumor-producing ability of the Rous sarcoma virus in chickens seems to depend upon continued production of virus by the infected cells. This difference between these two tumor viruses may relate to the fact that the former contains DNA, like the bacterial viruses, while the latter contains RNA.

A similar RNA-containing particle is the ribosome, present in the cytopalsm of all cells and an object of continued study in this and other laboratories. About ten years ago we showed that the initial polymerization of amino acids into protein occurs on these particles, which contain about equal amounts of RNA and protein, including structural proteins and certain enzymes, as well as the protein being synthesized. Shortly thereafter, "transfer" RNA, relatively small in size and a carrier of activated amino acids to the ribosomes, was also implicated here in protein synthesis. More recently, "messenger" RNA, which

contains a transcript of the DNA genetic code and directs the type of protein to be synthesized by ribosomes, has been discovered.

Thus three kinds of RNA interact in the normal process of protein synthesis. It is not unlikely that the RNA-containing tumor viruses act by inserting into and altering this process. The background of knowledge here of nucleic acid and protein synthesis makes it feasible to investigate this problem, and Dr. David Allen has initiated studies on the infection of chicken erythroblasts with the erythroblastosis virus, another RNA-containing particle.

In other studies the several steps in protein synthesis continued under close scrutiny. Earlier this year Dr. Allen examined the binding site of artificial messenger RNA (polyuridylic acid) to the ribosome and demonstrated that the integrity of this site was required for the preservation of the messenger RNA-ribosome complex. Dr. Lamborg has found that large basic molecules (such as polylysine) inhibit protein synthesis by aggregating ribosomes, perhaps through an interaction with ribosomal or messenger RNA. Possibly such an inhibition is a mechanism to control protein synthesis in the cell.

Studies with artificial messenger RNA have led to the formulation of a genetic code in which certain bases in the nucleic acids stand for certain amino acids in protein. This code must be corroborated or modified by the study of natural material, and transfer RNA has many advantages for such a study. Toward this goal Drs. Paul Zamecnik and Mary Stephenson have continued their efforts to isolate transfer RNA molecules specific for a particular amino acid. Recently quantities of valyl-RNA in the order of 90% purity have been obtained in much larger amounts than were heretofore possible. Theoretically any of several amino acid-specific RNAs can be isolated by the procedure they have devised, and for the first time we are in a position to study the molecules in detail. Drs. Peter Bergquist and Jesse Scott have degraded with alkali and ribonuclease both partially and highly purified samples of transfer RNA, and have begun to reconstruct the base sequence of these samples. For this sort of work it would be desirable to use micro-techniques capable of separating and identifying very

small amounts of nucleotides. Dr. Kurt Randerath has brought with him from Heidelberg considerable experience with the new technique of thin-layer chromatography, by which 0.1 to 0.3 millimicromole of each nucleotide can be detected.

Amino acids are activated and placed on transfer RNA molecules by specific enzymes. The chance for error at this step, as well as at the subsequent interaction between transfer RNA and ribosome, has continued to intrigue Dr. Loftfield. He has found that isoleucine and valine substitute for each other less often than once in 3,000 times—too rarely to be accounted for by present concepts of code reading by complementary base pairing. In regard to this low "error level" it is interesting that the presence of isoleucyl-transfer RNA increases the specificity of the isoleucine-activating enzyme, suggesting the possibility of an allosteric effect.

In our other major research area, the Endocrine Division, under Dr. Lewis Engel, studies have continued on 1) metabolic abnormalities in the synthesis of steroid hormones in tumors of endocrine tissues and 2) the complementary structural relations between steroid hormones and the biologically important sites with which they interact. For example, adrenal tissue from a patient with a virilizing tumor of the adrenal cortex was incubated with 17-hydroxyprogesterone- ^{14}C and progesterone- ^{3}H by Dr. B. Kwaku Adadevoh. The two major radioactive products formed were 11β-hydroxyandrostenedione and cortisol; both had high $^{3}H/^{14}C$ ratios, suggesting that progesterone was the major precursor. It is noteworthy that neither isotope was found in either testosterone or androstenedione, although the tumor produced profound virilization of the host. This apparently anomalous result may be explained by other experiments which demonstrated conversion of 17-hydroxypregnenolone- ^{3}H to dehydroisoandrosterone- ^{3}H sulfate. Apparently an important metabolic product of the tumor is dehydroisoandrosterone sulfate, which may be secreted directly into the blood stream, transported to peripheral tissue and there hydrolyzed and converted to the potent androgen, testosterone.

Mrs. Margaret Ward, a graduate student in the Department of Biological Chemistry, has continued her studies on the biosynthesis of steroid hormones, particularly the Δ^5-3β-hydroxy-

steroid dehydrogenase-isomerase system. Using sheep adrenal cortex as starting material, she has been able to prepare a particulate system in which these enzymes are retained in active form but from which hydroxylase activity has been removed. Contrary to current theories, she found that the dehydrogenase-isomerase system is completely reversible. Thus, she has been able to demonstrate the conversion of androstenedione to dehydroisoandrosterone and to 3β-hydroxyandrost-4-en-17-one.

Dr. Wilcox has undertaken a study of the formation of estrogenic steroids from androgens by human placental microsomes. By means of careful kinetic analysis, he has demonstrated that 19-hydroxyandrostenedione is the first intermediate in the conversion of androstenedione to estrone. In conjunction with these studies, he has examined the effects of structural analogs of the estrogens as inhibitors of aromatization in the hope of detecting other intermediates in this complex reaction sequence. He found that 17α- and 17β-estradiol both inhibit aromatization, while 3-methyl ether, a potent inhibitor of the placental 17β-estradiol dehydrogenase system, has no demonstrable effect.

Dr. Renwick has continued his efforts to purify the 17α- and 17β-estradiol dehydrogenase of avian liver. These soluble enzymes hold high interest for us as model systems for the study of substrate specificity and the effect of variations in substrate structure on the kinetics of the enzymatic reactions. In connection with studies on the human placental 17β-estradiol dehydrogenase, Dr. Orr has embarked on the synthesis of structural variants of the estradiol molecule. Recently he succeeded in synthesizing 4-nitro-17α-estradiol and its methyl ether. In other experiments Dr. Orr has achieved the first rational synthesis of Westphalen's diol, a cholesterol analog in which the angular methyl group has been shifted from C-10 to C-5 and the double bond from carbon 5 to the 9-position. These experiments open the way for the synthesis of hormone analogs that may possess interesting biological properties.

Diverse biological phenomena attract other investigators in these laboratories. Dr. Alan Aisenberg has been interested in the two cancer chemotherapeutic agents, Vincristine and Vinblastine, which are useful against lymphoid neoplasms in man.

He found that these drugs inhibit completely the development of delayed hypersensitivity and antibody formation in the rat when the drugs are administered at the time of immunization. Since these potent immuno-suppressive agents also delayed homograft rejections in the rat, they warrant evaluation in human tissue transplantation. In other work Dr. Aisenberg found that thymectomy of the adult rat does not lead to extensive immunological impairment, as in the neonatal animal. However it was shown that the adult rat thymus still plays a role in the recovery of the immunological apparatus from lethal irradiation.

Continuing her long-term interest in the mechanisms which regulate regeneration, Dr. Bucher has been studying the events which occur following partial hepatectomy in the rat. There is reason to suspect that important changes may occur in the nucleotide pools from which RNA precursors are drawn. The amounts of nucleotides available for study are very small and Dr. Bucher has been developing, for this problem, thin-layer chromatographic techniques originated by Dr. Randerath as mentioned above.

A year ago Dr. Charles Huggins described the preservation of human blood by freezing in the presence of dimethylsulfoxide, and the subsequent removal of this agent by the reversible agglomeration of erythrocytes. Since that time radioactive chromium survival studies show 87-95% 24-hour survival of erythrocytes stored in this way, and a clinical trial (95 transfusions to 27 patients) has been equivalent to the transfusion of non-frozen blood. This simple, practical method for long-term preservation seems to have a number of advantages.

Our other surgical colleague, Dr. John Burke, has been interested in the possibility of using for cancer chemotherapy two agents at the same time. Nitrogen mustard can be concentrated on tumor cells to make a mustard-cell wall complex, and specific antibodies to this complex can be induced in rabbits. Using the fluorescent antibody technique, Dr. Burke has found that when mice bearing a transplantable glioma are treated with nitrogen mustard and then this specific antibody, the major site of attachment is at the cell wall and the toxic effect on the tumor cell is greater than with either agent alone. These pre-

liminary results encourage further study of this method.

Dr. Littlefield has investigated the synthesis of DNA in partially synchronized cultures of mouse fibroblasts, and has found an increased amount of DNA polymerase in the chromosomes during the period of active DNA synthesis. Such a shift in the location of the enzyme may relate to the control of DNA synthesis by the cell. In other studies he isolated a number of clonal lines of fibroblasts with partial resistance to the analog 8-azaguanine, due to partial loss of guanylic acid-inosinic acid pyrophosphorylase. It seems not unlikely that these lines are heterozygous for the ability to synthesize active enzyme, just as occurs in the carrier states of diseases such as galactosemia, acatalasia, and orotic aciduria. They should be useful in the study of mammalian cell genetics.

Dr. Sohier has been interested in host factors in neoplastic disease, particularly the possibility of demonstrating such a factor in the serum of patients. Toward this end he has been standardizing an assay system in which ascites tumor cells, in the presence of various concentrations of different sera, incorporate thymidine-C^{14} into DNA and valine-C^{14} into protein. He finds that incorporation is in part dependent upon cell concentration, suggesting that cells must "condition" the medium in order to grow.

The biochemical mechanisms underlying differentiation of the slime mold, *Dictyostelium discoideum,* are of prime interest in Dr. Barbara Wright's laboratory. Certain parts of the mold are composed of cellulose, synthesized from uridine diphosphate glucose. Dr. Wright has investigated the enzyme responsible for this synthesis, finding it, among other things, to be "activated" by ethylenediaminetetraacetic acid, apparently through the removal of a heavy metal inhibitor. At early stages of differentiation, this enzyme, when extracted, is much less stable than later on, and has a different "activation" pattern. Dr. Gezelius in this laboratory has found that a 5′-nucleotidase highly specific for adenylic acid increases about 6-fold during slime mold differentiation, while the other nucleotides are split by another enzyme of constant activity throughout development. The former enzyme is inhibited directly by phosphate ions, and its synthesis repressed by phosphate ions and by glucose. It

seems likely that the decreased activity of this enzyme late in development is related to these two types of regulation.

During the past year four investigators have left for other posts: Dr. Peter Bergquist to the Department of Microbiology at the University of Auckland, Dr. Kilmer McCully to the University of Glasgow, Dr. Sharad Joshi to the All-India Institute of Medical Sciences at New Delhi, and Dr. Chuan-Tao Yu to the National Taiwan University. To study with us have come Dr. Marie-Hélène Buc from the Institut Pasteur, Dr. Charles Doering from the Department of Biochemistry at the University of California, Dr. Harry Karavolas from the Department of Biochemistry at St. Louis University, Dr. James Orr from Syntex Research Laboratories in Mexico City, Dr. George Petersen from Oxford University, Dr. Kurt Randerath from the University of Heidelberg, Dr. Barbara Sanford from Roswell Park Memorial Institute, and Dr. Prem Sagar Sarin from Cambridge University and more recently Brandeis University. In addition, Dr. Gardella journeyed to Copenhagen last summer to continue his studies on synchronously dividing tetrahymena in collaboration again with Dr. Paul Plesner.

Finally, we wish to acknowledge once again our gratitude to the Massachusetts General Hospital, Harvard University, the American Cancer Society, the Atomic Energy Commission, and the U.S. Public Health Service. May our efforts continue to justify their support!

PAUL C. ZAMECNIK, M.D.
Director

Report of the Coordinating Committee

THE reports of the M.G.H. member groups of the Coordinating Committee appear below for the Ladies' Visiting Committee of the Massachusetts General Hospital, the M.G.H. Service League and the Distaff Club.

MRS. R. MORTON CLAFLIN, CHAIRMAN, PRESENTS THE FOLLOWING REPORT FOR THE LADIES' VISITING COMMITTEE:

This report of the Chairman, plus reports from the chairmen of the various committees given at our Annual Meeting, is a summation of what has gone on in the life of the Ladies' Visiting Committee during the preceding twelve months. The hopeful assumption is that by hearing these reports the individual members may see with greater clarity the relation of the Committee as a whole to the Hospital and to form some idea of how effectively the Committee is doing its job.

The Massachusetts General Hospital itself is a very dynamic institution. Let me remind you of a few of the things which have taken place this past year. The opening in October of the Kennedy Laboratories for the study of mental retardation, the completion of the new intensive care unit in Bulfinch 3, the creation of the remarkable respirator unit in the Phillips House, the completion of the renovations in the White Building, the opening of the Medical Station at Logan Airport, the start of the Emergency Ward X-Ray Unit, which now nears completion. The renovations in certain areas of the Clinics Building are heartwarming to see and the building of the Coffee Shop fills us with pride. The Lowell Lectures took place during a good part of last winter, and for those of us fortunate enough to have heard them came a deepening understanding of the hospital's relation to the community it seeks to serve.

Throughout all of this activity — and sometimes as a result of it — the finest kind of medical care was being given to those who came as patients. Lives saved by new and old techniques, important research and teaching. Such day-to-day excellence

usually proceeds quietly in our Hospital, but the story of young Everett Knowles' arm was told everywhere.

My feminine heart quakes at the thought of the Ladies' Visiting Committee trying to live up to such standards. Still, we have done our best to fill our appointed place and we have made our contribution toward helping the patients in all ways that were possible. Indeed, in re-reading the minutes of the past year, I was struck by the richness and variety of our activities and associations in the Hospital. We have continued to provide the Baker Hospitality Service throughout the year, serving coffee and tea to patients five days a week during admitting hours, hoping thereby to provide a welcome and a reassurance to those persons coming to the Baker for care. A number of our dedicated members have visited patients with particular needs at the request of Social Service, Nursing Service, the Chaplains or the Ward Secretaries. It is interesting to note that these kinds of visits have been made continually for over ninety years.

Our Children's Service Committee has worked with the Children's Recreation Department in the Burnham helping to meet the social, emotional and physical needs of the children. The members of Mrs. Francis Haydock's committee have assisted in the planning and executing of group projects as well as offering affectionate attention on an individual basis to young patients with this need. At Christmas time the committee helped with the Christmas Party, carefully selected presents for each child and filled stockings to bring pleasure on Christmas morning.

Elsewhere in the Hospital, the Christmas Committee under Mrs. David Ferguson worked with Miss Marjorie Shea, Community Relations Consultant, to arrange many of the plans that go to make up the celebration of the Christmas season at the Hospital. Our Chapel was made newly beautiful through Mrs. Almy's efforts and her Flower Committee kept plants and flowers in the lobbies of the Hospital at all appropriate times during the year. Mrs. Morrill Wiggin's Furnishings Committee worked with the Administration fulfilling the requests that came our way, and Mrs. William Constable and Mrs. Nelson Aldrich and their Art Committee have pictures everywhere.

Many are on loan from the Museum of Fine Arts, the two in the White lobby have been lent by the artist, Mr. Jack Wolfe, and some are being rented from the Institute of Contemporary Art.

In the Clinics, through the heroic work of a few, we were able to set up a Coffee Service on the third floor which has been in operation since last spring. The response to this has been so overwhelmingly favorable that Miss Ruth Farrissey, Executive Officer of the Clinics, wishes to expand the service to include the second floor and eventually other areas in the building. To this end, we have asked the Volunteer Department to assume responsibility in this project realizing that with our other commitments the Ladies' Visiting Committees simply lacks enough persons to do the job. Some of our members will continue to work on the Clinics Hospital Program, and Mrs. Wheaton Kittredge will act as liaison between the Volunteer Department and the L.V.C. as an assurance of our interest and willingness to do all we can to help in the growth of this project.

The Recreation Service on White 5 has been a great success. Mrs. Mueller has been resourceful and imaginative in her work, and from all I hear her program has lightened the hours of convalescence enormously for the patients there. Our support of this Service will continue.

On White 9 in addition to visiting, we made a gift at Christmas time which enabled Dr. Jones and his Staff to provide needed amenities for their patients. The washing machine on White 9 and the sewing machine on Bulfinch 7 both have proven to be social benefits as well as mechanical ones.

The Coffee Shop soon will open. As Mrs. Horace Frost's committee completes its job of seeing the Shop through its construction and furnishing stage, Mrs. Charles Almy and her joint L.V.C.–Service League Committee charged with its operation has begun its work. A professional manager is already on the payroll. The Committee feels the highest possible sense of responsibility for the success of the Shop, and we look forward to its opening with great excitement and a feeling of gratitude to the Trustees for making it possible for us to offer this service to our patients' visitors and to our hospital family.

The General Store and the Travelling Store continue to be a

great service to our patients, their families, and to the hospital personnel. And they continue to provide the financial means for much that we do in the Hospital. A letter has been written to the Trustees calling their attention to our longing for a better location for the store and stating our hopes that in plans for the future of the Hospital, such a place will be made available.

The 1963 financial report of The General Store, which is operated by the Ladies' Visiting Committee for the benefit of the Hospital, is as follows:

Balance on Hand — December 31, 1962		$ 18,861.96
Cash Receipts — 1963		96,712.50
Total		$115,574.46
Expenses:		
Salaries	$11,440.78	
Stock Purchased	68,949.52	
Utilities Charge	183.87	
Miscellaneous (Includes Excise Taxes)	563.60	
Total Expenses		$81,137.77
		$34,436.69
Paid to Ladies' Visiting Committee from Earnings		10,000.00
Balance on Hand — December 31, 1963		$24,436.69

SUMMARY

Receipts	$96,712.50	
Expenses	81,137.77	
Cash Gain	$15,574.73	
Increase in Inventory	696.00	
Operating Gain for 1963	$16,270.73	
Value of Inventory December 31, 1963		$ 4,090.00

During the year we were enlightened by talks from Dr. Neumann, Miss Farrisey, Chaplain Reed; and at our annual, very pleasant luncheon with the Trustees, we had a most interesting report from Dr. Knowles concerning the growth of the Hospital and the pressing need for the North Building.

An innovation this past year, which has been of educational

value to all of us, has been the series of tours arranged by Mr. Crockett which have taken place after each of our meetings. We have been given privileged views of Bulfinch 3, the Thyroid Clinic and the Blood Bank, and have been shown the new X-ray equipment which operates in conjunction with a TV system.

We basked in reflected glory when the first Jessie Harding award for outstanding volunteer service was given to Mrs. Taylor Black, a member of the Ladies' Visiting Committee.

I am sorry to have to report that death has deprived us of four of our members and we are diminished by the loss of Mrs. Arthur D. Hill, Mrs. William G. Thayer, Mrs. Richard Hale and Mrs. Frederick Eustis.

MRS. H. DUNSTER HOWE, PRESIDENT, PRESENTS THE FOLLOWING REPORT FOR THE MASSACHUSETTS GENERAL HOSPITAL SERVICE LEAGUE:

An analysis of the Service League membership was made for an eighteen months period ending December 1963. Projects were reckoned from May 1962 to May 1963, thus the figures reported herewith are a fair approximation.

There are 414 members of the Service League of whom 245 paid dues, which are voluntary. There are 353 staff members' wives, 89 of whom are not active in the Service League. However, because the Service League is the successor of the Staff Wives' Association, all wives of staff are automatically included on the membership roster. There are 61 non-staff wives who have joined as interested friends.

Fall community meetings in thirteen areas and the new "Bulletin" are efforts to keep the membership informed about the ever-expanding activities.

Forty-two members worked at the Reception Center maintained by the Service League at the Hospital from 10 A.M. to 3 P.M., except Saturdays, Sundays and holidays (Summer schedule, 10 A.M. to 1 P.M.). They handled 1,174 transactions with and for the professional visitors who came to the Massachusetts General Hospital from all parts of the world. This is almost twice the number recorded for the previous year. Here, 216 Symphony and theatre tickets donated by friends of the Hospi-

tal were distributed to international visitors and the Hospital family; 147 referrals were made to visitors seeking housing; and 31 visitors borrowed furniture from our storage rooms at the McLean Hospital. Information was offered about Hospital activities, tourist attractions and current events in Boston.

Hospitality was extended by 134 members to our professional visitors and their families. Two large teas were held in their honor at the Hospital; they were entertained in homes, included in the annual Memorial Day picnic and in countless informal gatherings and trips.

The Information Desk in the brick corridor was staffed on a daily basis by 20 members who assisted lost or bewildered visitors.

In the large and complicated Clinics Building 23 members offered information and hospitality. In the first forty-five days of its existence, the Clinics Information Desk assisted 2,970 patients.

Bi-weekly concerts were held in the Chapel for audiences totalling approximately 555 patients who were escorted to and from their rooms by 26 members.

The Director of the International Program for Health Care Executives from Developing Nations addressed our second annual luncheon and ten of the executives were our guests.

Two members attended all meetings of the Volunteer Advisory Committee and the Coordinating Committee of the Hospital. Three were delegates at the 65th Annual Meeting of the American Hospital Association in New York City. Several were present at meetings of the New England Hospital Assembly, the Massachusetts Hospital Association and the Greater Boston Regional Council of Hospital Auxiliaries.

It is the personal hope of the writer that a stronger relationship will evolve between the volunteer groups serving the Hospital. There is a present-day tendency for the Hospital auxiliary to become a large representative body. Numbers reinforce the strength of the auxiliary in service projects; at the same time, they provide the Hospital with an articulate voice within the community.

For the first time, two representatives of the Distaff Club have attended our monthly Board meetings. The Spring Dinner

Dance and a tea were sponsored jointly by the Service League and the Distaff Club. Thus, liaison between the two organizations is increasing. Another project which has flourished in an atmosphere of cooperation between groups is the planning of the Coffee Shop, undertaken jointly by the Ladies' Visiting Committee and the Service League.

With this report the term of the President nears completion. Twenty-one years ago, as an Assistant Attorney General of Massachusetts, I interviewed hospitalized survivors of the Cocoanut Grove fire. At the Massachusetts General Hospital, I found an atmosphere of total concern for the patient and harmonious interrelation of staff. My work with the Service League over the past ten years has reinforced this original impression of extraordinary commitment of staff and administration.

MRS. GUSTAVE MUELLER, PRESIDENT, PRESENTS THE FOLLOWING REPORT FOR THE DISTAFF CLUB:

The Distaff Club is composed of the wives of House Officers and Fellows as well as any ladies who are professionally associated with the Hospital as House Officers or Fellows and wish to become members.

The Club has a twofold purpose: social and service. The social program includes the general meetings, area meetings, and special parties. During the period from October 1, 1962 through September 30, 1963, there were several general meetings with distinguished speakers and followed by a coffee hour. On October 23 a program of woodwind music was held in Walcott House for the enjoyment of the club members, their spouses, as well as the overseas visitors to the Hospital. On December 14, Distaff had its Annual Christmas Party.

In January a Bake Sale was held in the brick corridor for the benefit of the club treasury. On January 19, Dr. and Mrs. John Raker were kind enough to lend us the facilities of their barn in Concord for a Winter's Night Hayride and Supper. February 26 found Dr. John Knowles speaking on "The Social History of the Massachusetts General Hospital." This was a most interesting and informative meeting. Distaff was privileged to entertain the distaff groups from the Peter Bent Brigham, Beth

Israel, Children's, and City Hospitals on March 5 to hear Dr. Evelyn Goodenough Pitcher who spoke on "The Psychological Differences In Behavior Of The Male And Female At The Pre-School Age."

The Annual Spring Dance on April 27 was planned jointly with the Service League. It was held at the Harvard Club with Ruby Newman's Orchestra and was the most successful dinner dance in recent years. On May 1, Distaff was invited to meet with the wives of all the Greater Boston Hospitals at Children's Hospital to hear a program on "The Different Methods of Education." One of our most exciting social programs was a tea given by the Service League at the home of Mrs. Jost Michelsen on May 8. A really superb art collection was enjoyed by all and toys were collected for the furniture exchange.

On Memorial Day, Dr. and Mrs. Bradford Cannon again welcomed us with our families to a picnic on their grounds. In early June, Distaff was addressed by one of its own members. Mrs. Margaret Parker spoke and showed slides of her eighteen month cruise around the world aboard the brigantine "Yankee." The club entertained guests from the Service League as well as some patients from White 5 and 9.

In July, Dr. and Mrs. Knowles held a reception for new and old residents and interns in the Warren Lobby. The penthouse was outfitted with playpens and toys and six nurses and two Distaff mothers were in attendance to care for the children. In the fall a panel of Staff wives spoke on "The Role of the Doctor's Wife in the Community." The panel consisted of Mrs. H. Dunster Howe, Mrs. Grant Rodkey, Mrs. Earle Wilkins, Mrs. Alfred Kranes, Mrs. Hardy Hendren, and Mrs. Edwin Salzman. A lively question and answer period followed this meeting.

The service aspect of the Club's activities included individual volunteering, Halloween and Valentine Parties for the children in Burnham, the gift wrapping of some 600 gifts for the Hospital Christmas Party, and the creation of mobiles for the Burnham units. A new service was started within the Club whereby new house staff and their families were offered bed and board in Distaff homes. Four families took advantage of this new service and were most impressed with the hospitality they

received as well as the invaluable information on where to look, how to get there, etc. The financial support for these projects was provided by the club dues, the bake sale, and by a $100 gift from the Ladies' Visiting Committee.

Communications and reports on the progress of all the above activities were maintained through the publication of a Distaff Directory and four issues of the Distaff News.

During the period covered by this report, new officers were installed. The elected and appointed officers for the Spring 1963 until the Spring 1964 were: Mrs. Gustave Mueller, President; Mrs. James Callison, Vice-President; Mrs. Nicoll Galbraith, Corresponding Secretary; Mrs. Bert Litwin, Directory Secretary; Mrs. John Sheagren, Treasurer; Mrs. Nels Lampert, Newsletter Editor; Mrs. Mark Kartchner, Publicity; Mrs. Richard Wohl, Hospitality; Mrs. G. M. Williams, Housing; Mrs. G. N. Rogentine and Mrs. Herbert Waxman, Service Co-Chairmen; Mrs. George May and Mrs. Michael Jabaley, Liaison to Service League; Mrs. Robert Burke, Area Coordinator.

Report of the Advisory Council of The Massachusetts General Hospital School of Nursing

THE eight regular monthly meetings of the Advisory Council were held from September, 1962 through May, 1963 with the exception of the December meeting.

Statistics concerning students in the M.G.H. School of Nursing are always interesting. In September 101 seniors were graduated, 96 from our three-year program, five from the coordinated program. One hundred forty-one freshmen were admitted out of 440 applications. Of the 118 students in the Diploma Program, 62 came from Massachusetts, 28 from other parts of New England, and the average age was 18 years. There have been many changes and improvements in this program.

In the Alternate Program with Northeastern University, initiated in September 1962, 23 students were enrolled in the first freshman class, 13 reside at Northeastern and the remainder live at home. For the most part, these applicants were from New England, and the average age was 18.

The Advisory Council in its study of the overall educational program of the M.G.H. reviewed the improvements in the Coordinated Radcliffe-M.G.H. Program. Seven members were admitted in June 1962 and included three graduates from Radcliffe and one graduate each from Smith, Wellesley, Bates, and Wilson Colleges, making a total of 21 students in the program. Ten is probably the maximum number of new students that could be accommodated in this type of tutorial and seminar teaching, and the cost to the School is necessarily high.

The Council considered the statistics concerning the Loan Fund and Scholarship funds in the various programs. Mrs. Alan Morse was appointed the Council's representative on the Committee which manages the M.G.H. scholarship fund. This fund has increased substantially from gifts of alumnae and

friends since it founding in 1915 by Miss Sara Parsons, Superintendent of Nurses.

The recent cost analysis of the School of Nursing and the reestimate of the value of the student nurse were discussed in great detail with Mr. Lawrence E. Martin, the Hospital Comptroller.

In January the Boston Lying-In and McLean Hospitals each announced a $75 tuition fee for our students for their three months affiliation experience. After considerable study by the faculty, an increase of $80 per month for maintenance during the first six months of the freshman year was suggested, and in February the Council and Trustees voted the $480 charge to be announced forthwith and to become effective in September 1963. This is in line with the changes in tuition rates by other schools of Nursing in the Greater Boston area.

Our Committee is kept up to date throughout the year on many aspects in the overall picture of nursing that both now and in the future affect the Massachusetts General Hospital. Miss Edna Lepper, Associate Director of Nursing, and Mr. Walter Hall, Coordinator of Unit Managers, reported on the successful Unit Manager Program now in operation in White 10 and 11 which was established in order to separate direct nursing care from the many non-nursing administrative functions.

We also studied the summary of the preliminary report by the Surgeon General's 24-member Consultant Group on Nursing which calls for 680,000 professional nurses by 1970. The final report will be considered next year.

The annual joint luncheon meeting of the faculty of the M.G.H. School of Nursing and the Advisory Council was held in November. The different aspects of conducting a school of nursing and the value of the school to the hospital were discussed by Dr. Knowles, the General Director of the Hospital, and Mr. Lawrence, Trustee and Chairman of the Trustees' Committee to the School of Nursing.

For the second year a Parents Day Program was planned for the junior students on two successive Saturdays in October, and a very lively panel discussion describing the various affiliations by the students was followed by luncheon and tours of the Hospital.

The Trustees' Committee to the School of Nursing and Nursing Service has met six times during the year, and the Council wishes to go on record in thanking the Chairman, Mr. John E. Lawrence, for the thoughtful recommendations he has made to the Trustees on behalf of the School and the Council.

The Advisory Council is most grateful for the loyalty and interest of Mrs. Alfred Kranes, M.G.H. Alumnae representative appointed 1960 to 1963. We welcome Mrs. Llewellyn Cross who succeeds her.

FRANCES J. FAHNESTOCK
Chairman

Massachusetts General Hospital
Nursing Department

	1963
Average No. of Graduates on General Hospital Staff and Clinics	302
Average No. of Graduates on School of Nursing Staff	50
Average No. of Graduates on Baker Memorial Staff	87
Average No. of Graduates on Phillips House Staff	97
Average No. Accepted Pupils	208
Average No. Preclinical Students†	132
Average Total	876
Total No. Preclinical Students† Admitted	164
Preclinical Students† Dropped and Resigned	34
Accepted Pupils Dropped and Resigned	9
Total Dropped and Resigned	43
Average No. of Graduates on General Hospital Staff *Part time	16
Average No. of Graduates on Baker Memorial Staff *Part time	14
Average No. of Graduates on Phillips House Staff *Part time	16
Total *Part time Graduates	46

CENSUS OF THE NURSING SERVICE AND SCHOOL OF NURSING
October 1, 1963

Graduate Nurses, General Hospital and Clinics	314
Graduate Nurses, School of Nursing	51
Graduate Nurses, Baker Memorial	98
Graduate Nurses, Phillips House	97
Total	560
STUDENT NURSES:	
Students three year program	393
Students Coordinated Program with Radcliffe College	14
Affiliating students from other schools	59
Total	466
TOTAL GRADUATE AND STUDENT NURSES	1,026
NUMBER OF STUDENTS ASSIGNED OUTSIDE THE GENERAL HOSPITAL	
Baker Memorial	
MGH students	21
Incoming Affiliating students	21
Phillips House	4
Boston Lying-In Hospital	30
McLean Hospital	23
Public Health	2
NUMBER OF STUDENTS AFFILIATED IN 1962-1963	
Simmons College School of Nursing	26
McLean Hospital School of Nursing	51
New England Baptist (The Clinics)	43

*Part time nurses expressed in equivalent of full time.
†Now called Freshman year.

The Nursing Department

The Nursing Service

MANY forces combined to shape the program of the Nursing Service during the year: variations in patient occupancy, changing medical programs, shifting patterns in nursing care and service, and trends in nursing education.

Patient occupancy has mounted again this year, reaching a new average high, and bringing problems of rapid patient turnover, excessive demand for beds in private units, and complications which arise when patients from one unit must be placed permanently or temporarily in a unit other than their own or the doctor's choosing.

The increasing complexity of medical treatment has again emphasized the need for nurses with more highly specialized knowledge and for more facilities adapted to the care of the critically ill.

For several years the Nursing Service has felt the impact of the changing pattern of nursing education. The nurse beginning practice today tends to be young in years, more knowledgeable in the science of nursing and human relations, but less seasoned in her experience with people: patients, doctors, and the nursing administration. The semi-apprenticeship system of the past, now actually disappearing, endeavored to prepare nurses before graduation who solidified and tested their knowledge, such as it was, in the care of patients, developed judgment through first hand experience, and learned their manual and observational skills in repetitive practice. In effect they came to their employment with some experience.

This year the Nursing Service employed 292 staff nurses and lost 223 by resignation. In the group employed were 66 M.G.H. graduates. The other 226 nurses came from many states, some from four-year university schools, a few from schools of nursing in junior colleges, and the others from three-year schools in

hospitals of all different sizes. The process of welding this heterogeneous mixture into an effective staff with the special knowledge, skills, and loyalty needed by patients and Hospital staff takes the combined understanding and skill of all who work with them. Some of these nurses bring years of rich experience. Some have never seen the highly specialized techniques employed here. Some have never experienced responsibility for a large group of patients, and others have never worked with medical interns and residents.

To add to the complications arising when staff nurse turn over is 62%, the other nursing personnel showed even greater instability. This year were also employed 40 licensed practical nurses, 283 aides, ward helpers, and ward secretaries. The burden of orientation and teaching of these 574 new nursing personnel falls in part on the Staff in In-Service Education, but to even greater degree on the head nurses and supervisors. It is also true that all on the patient units, including patients themselves, share at times to the detriment of their own plans and needs in the teaching of the newcomer.

The employment situation is especially acute as the Hospital returns to higher occupancy after the summer. In the first two months of the year, October and November, a total of 241, over one fifth of all nursing personnel on the wards, were new to M.G.H. policies, facilities, and methods. The future holds little promise for improvement in this respect. Expectations are that schools of nursing will grow more academic, that graduates will be even less familiar with the Hospital program, and that unless different and more effective means can be found for staffing, instability will continue.

Some of the present methods employed to hold personnel include the following. Course scholarships continue for nurses interested in continuing education. Eighty-five graduate nurses in the fall of 1962, and 107 in the spring of 1963 received tuition for one or more courses in a local university. Of these numbers the large majority were staff nurses.

In-Service Education was augmented. The orientation program was expanded for all nursing personnel. The series of classes for prospective head nurses was revised. On-the-job training for aides was reorganized. In all units, head nurses

and supervisors shared actively with assistant directors in planning instruction which related to the needs of personnel as they worked toward improvement of patient care.

Plans to relieve the nursing staff of non-nursing activities were emphasized. The pilot program of the unit manager system was completed in October. As the year closes, unit managers are at work on White 11, 10, and 7, and others are soon to assume responsibility on White 5 and 6. Progress has been purposely slow but sound. For the most part the change in ward organization has been accepted well by nurses and nursing personnel. That doctors are less ready to accept the new unit manager is not surprising, for in this plan, as in others, too little opportunity continues for joint discussion and planning between medicine and nursing at the patient unit level.

During the summer a new form of medicine cart was introduced, a kind of traveling medicine closet, kept stocked and ready to move to the patient's side where the nurse administers the medication with one handling. Growing out of the nursing medication form, devised to simplify the medication record, is a new MOSAIC, the "Medicine Ordering System and Inventory Control." With the help and assistance of Pharmacy, Accounting, and CASO, the Central Admitting System, MOSAIC has now relieved Nursing of duplicated records, order forms and charge slips for special medications and intravenous solutions.

Steps were also taken to lighten the load of the evening staff as secretarial services were extended into evening periods, and ward helpers were added.

On White 5, through the generosity of the Ladies' Visiting Committee which assumed the cost, a recreation worker has been added. The long-stay patients have greatly benefited from the service, and with the convalescent patients happily occupied Nursing staff find more time for the care of the acutely ill, and more time for teaching and rehabilitative activities.

Through shared planning for Nursing, staff nurses and head nurses have grown to feel a part of both Nursing Department and Hospital. Representatives of both groups work actively on several major committees: the Nursing Practice Committee which studied and wrote 14 new procedures; the Disaster Plan-

ning Committee which has set up a Disaster Organization for Nursing, prepared a manual, taught fire prevention and fighting, and worked with the over-all Hospital Committee on Disaster; the Purchasing Committee which is constantly involved in the study and testing of new, disposable and other types of materials and equipment; the Patient Safety Committee which is actively at work analyzing the safety factors in nursing care. In addition a committee of head nurses works monthly with representatives from the Pharmacy, studying ways to facilitate the measuring of medications and to insure safety in handling the ever increasing volume of new preparations.

Several innovations in Nursing have been watched this year with great interest. "The Medical Nurse Clinic" in which the head nurse in the Medical Clinic has been assigned a group of patients for clinic follow-up visits is one of these. Observations almost two years ago convinced Dr. John Stoeckle that the well prepared nurse could assume responsibility for selected long-term patients, relieve the busy Medical Staff, and provide a more effective patient relationship. Approximately 80 patients now come directly to the nurse for follow-up visits for observation, for consultation on regimen, on medications, diet and general care. The nurse refers to doctor, nutritionist and social worker as necessary. Experience with the plan has proved its value to these patients, and demonstrated the greater effectiveness of the nurse in such a role. Communications with patients are improved and necessary reassurance, often not sought because "the doctor seemed so busy," is now effectively combined with helpful teaching and guidance.

The second major change in Nursing's role came with the opening of the M.G.H. Medical Station at the Logan Airport in January. Here 3 full time and 3 part time nurses with one secretary provide the ambulatory nursing care for Airport personnel. Added to the usual functions are new skills in emergency care, plans for accident prevention, a preventive medicine program with chest surveys, immunization programs, and programs of health education and information. To augment this staff in time of emergency the Nursing Service keeps available and on call Proceed-Out-Teams which include one or more nurses as the situation requires.

The School of Nursing

The School year 1962-63 in many respects followed the general pattern of previous years. The number of eligible applicants continued to exceed the number which could be accommodated. One hundred and forty-one Freshmen were selected from 479 applicants whose credentials were studied in detail by the Committee on Admissions. The average enrollment was 340. Of the 100 Seniors who were graduated from the standard three-year program, 66 returned to work at the Hospital, 3 went to the McLean Hospital to work in psychiatric nursing, 21 are known to have gone to work in other agencies including the Veterans Administration Hospitals and the Boston Visiting Nurse Service.

Twenty-three of the Freshmen admitted in September, 1962 as members of the Alternate Program spent their first 35 weeks at Northeastern University. Eighteen of these continued in the program to begin full time study in the home School in May. No reliable judgment can yet be made of the values of this plan. We do know that for this small group our admission requirements proved adequate for college study; that students self-selected from the 1962 entering class carried the University courses creditably; that interest in nursing was not diminished during the 8 months on the University Campus away from the Hospital and School of Nursing; that this group of students appeared able to relate both to the School of Nursing and to the many aspects of the University life which were open to them academically and socially. As the Alternate Program enters its second year, 29 new Freshmen begin their first year studies at Northeastern, and 18 second year students, now on their medical and surgical nursing assignment, will register at the University for a single course in psychology as a part of their School of Nursing schedule.

When the Alternate Program was initiated in September, 1962 it was the hope of our School that such a plan would answer increasingly the desire of our students to have the special advantages which a sound three-year diploma program can offer combined with a taste of some of the privileges available

to students on an academic campus. Students themselves were also interested in securing the Associate Degree in Science which the University offered to award on completion of the three-year program.

As the second year of our experiment begins, Northeastern University announces the opening of its own School of Nursing which will admit students to an Associate Degree Program in Nursing in 1964. It is the considered opinion of the University authorities that two Associate Degrees cannot be offered to students in nursing. Therefore no further classes may be admitted to our Alternate Program after September, 1963. The School of Nursing regrets this decision as we believed the plan would prove to have values for both students and School.

The publication this year of the Report of the Surgeon General's Consultant Group on Nursing (United States Public Health Service) "Toward Quality in Nursing"[1] again focuses our attention on the problems of the hospital-controlled, diploma program in nursing. Although the report recommended increased enrollment in hospital schools, and although no direct statement relative to discontinuance appears, the public reaction as well as the nurses' response in general seems unfavorable to the school of nursing conducted by the hospital. With the enormity of demand for nurses forecast for the 1970's, it is without doubt true that preparation of teachers and nurses for positions of leadership must be given priority in public support to financial assistance for university students and schools and to recruitment. The paradox lies in the fact that if patients are to be nursed the supply of nurses for direct patient care must also be continued. Over 80% of this supply is provided by the Nation's hospital schools of nursing.

This year our School was re-surveyed for continuing accreditation. Such a survey has specific advantages for the School in spite of the burden of preparation placed on every member of the School's staff. Every aspect of the School's program was scrutinized from the over-all, guiding philosophy to the details and methods of administration, the curriculum plan, and the policies which encourage sound implementation.

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[1] Toward Quality in Nursing, Report of the Surgeon General's Consultant Group on Nursing, Public Health Service, February 1963. U. S. Department of Health, Education and Welfare.

The School received continuing accreditation with commendation. There were suggestions for improvement which dealt with organization. It is extremely rare for a School of Nursing in a hospital to conduct more than one program. The M.G.H. School has three: the Standard three-year diploma program; the Alternate three-year diploma program affiliated with Northeastern University; and the Coordinated Program for college graduates established with Radcliffe College in 1946. Visitors coming to survey the School for accreditation, and members of the Board of Review, find our School organization difficult to understand. Already the Faculty has been at work to redesign the School's plan of organization to interpret the School more clearly to those concerned in the future.

Most of the other recommendations from the Accrediting Service referred to the "internship plan" for Seniors in the Standard three-year program. This plan has never been received enthusiastically by those concerned with our accreditation, yet Senior students and beginning graduates of the program consider this "internship" year with its opportunities for development, for testing of abilities and for self-realization, as the most valuable segment of their program. As our definition of internship is not consistent with the definition now accepted by Nursing, this third year of supervised practice with its conference program will be designated simply as the "Senior Period." During this period the School will continue to emphasize the development of responsibility and to provide opportunities which demand increasingly the acquisition of broader knowledge and more effective skills. We hope, too, the plan will help the Seniors to strengthen or acquire the attitudes toward nursing and patient care for which the M.G.H. and its School of Nursing stand.

Fortunately the public announcement of the sale of the Winchell School building to the M.G.H. came on the day the Accreditation Service visitors arrived to survey the School. No comment on the inadequacy of our facilities therefore appears in the Accreditation Report. The School is grateful to the Hospital for this additional space and hopes that occupation may be possible in time for the new class in September, 1964.

In the spring the Faculty recommended to the Trustees' Com-

mittee on Nursing and to the Hospital Administration that student fees again be increased. It was recommended that a charge of $80.00 per month be added for the first six months for Freshman maintenance. Effective in September, 1963 is also an affiliation fee required by both the Boston Lying-in Hospital and the McLean Hospital School of Nursing. Charges for students in the School of Nursing now are as follows:

Preentrance: for test fee, uniforms, tuition deposit	$ 152.00
First year: tuition, fees, books, uniforms	1,144.00
Second year: tuition, tuition for affiliations, fees, books	632.00
Third year: tuition, fees	270.00
	$2,198.00

As notice of this increase was sent to the applicants in March, too late for family planning, somewhat more liberal financial assistance was made available this year. Income from the School's invested scholarship funds provided $3,850.00. The Alumnae Association added $150.00. The School of Nursing remitted charges equivalent to $16,000 for Freshmen. In addition tuition aid of $2,750.00 was given to students in the Junior and Senior classes.

In conformance with programs for financial aid in other types of schools, a plan was established to enable students receiving this aid to make some return to the School. Opportunities are available for student work in the School's offices and library, and as substitute hostesses in the residences. Opportunities to work for pay continue to be offered by the Nursing Service to assist students who need to earn small amounts of money for personal expenses.

The future of the Coordinated Program conducted with Radcliffe College continues undecided. The quality and quantity of applicants shows the need for a program designed to meet the special needs of graduates of liberal arts colleges. Placed in a university which could develop a program to challenge these young women, and could grant a degree, we believe such a program would make a worthy contribution both to its participants and to Nursing. Presently 8 liberal arts colleges are represented in the 16 students enrolled: Bucknell, Middlebury, Mt. Holyoke, Radcliffe, Smith, Vassar, Wellesley and Wilson.

This year a long range plan was begun to refurbish the residences. Thayer acquired an A-C electric power line, long desired by the residents. Walcott living room, completely redone, now vies with Bartlett Hall in popularity for social events and meetings. A kitchen-dinette on the second floor of Walcott constitutes the first approach toward a plan to make this residence attractive to both Seniors and graduate nurses for whom there is not the desired space at Bartlett.

Except for the change in students, as graduations and admissions occur, one year merges with another in the School where classes and faculty responsibility continue 12 months of the year. September, 1963 shows a shortage of 4 instructors, 3 more than in 1962. Yet there continues ever greater demands for progressive improvement in curriculum planning and teaching which must be met.

For the School this year there are two major recommendations: one, that serious consideration be given by all concerned to ways and means of making the position of instructor in our School more attractive, and second, that efforts be renewed to find an answer to the future placement of the Coordinated Program in a university.

In closing this report we of the Nursing Department wish to thank all those who have supported and encouraged us during the year: Mr. John Lawrence and the members of the Trustees' Committee on the School of Nursing and Nursing Service; Mrs. Harris Fahnestock and the members of the Advisory Council of the School of Nursing; Dr. Knowles, Dr. Neumann, and the Associate and Assistant Directors of the Hospital; and Department Heads.

RUTH SLEEPER, R.N.
Director of the School of Nursing and Nursing Service

Report of the Social Service Department

ANNUAL reports of the Social Service Department for the past few years seem to have a repetitiveness. The same facts and problems have constantly appeared, such as the increase each year in referrals to the Department; larger amounts of money arranged to meet ancillary costs of medical care; more patients with more severe psycho-social and medical problems; and continued lack of community resources to meet these problems particularly at times of crises. On the administrative side there are staff turnover, crowded working quarters, new studies and projects, heavy teaching responsibilities, and the understanding support of administrative, nursing and medical colleagues and the Social Service Advisory Committee.

On further analysis of the thirty reports from staff one finds that in such a changing, dynamic and individualized service as helping in the social aspects of living, people who are ill, deprived and depressed and often facing "major surgery," there is infinite variety and in spite of discouragement, a striving for new ways of helping and adapting to stress situations.

Statistics

A total of 7,685 different patients were referred plus 435 recurrent referrals, an increase of 345 and 174, respectively, over the previous year. Greatest inceases again occurred in the Psychiatric Adult Clinic, Psychiatric Emergency Service coverage, the Adult Medical Clinics and Neurosurgical and Gynecology Service patients. There was an increase in continued services to patients and their families so that the continued average monthly case load was 1,932 as against 1,814 in 1961-62, an increase equivalent to the work load of two workers. The most marked decrease is noted in the Medical inpatient services, due in part to lower service patient occupancy, almost complete Social Service staff turnover, and a somewhat disheartening work situation both physically and psychologically.

Ancillary Medical Relief

We were instrumental in arranging for meeting ancillary costs of medical care to the extent of $37,775 compared to $25,437 last year. As previously, the largest single item was for taxi transportation $14,925 with $1,128 paid from funds administered by the Department, $3,958 from the Edward Bird Trust Fund under Mr. Henry J. Murphy's administration, and the balance of $9,839 from Public Welfare. About 70% to 80% of the taxi transportation services is in arranging and billing for taxi transportation for Public Welfare clients. The situation needs review. Other large items were for camp, $4,376; homemakers, $1,934; special schooling and tuition, $2,268; nursing home care $2,390. This year we are especially grateful for the increased use of the Edward Bird Trust Fund, amounting to $15,523 to meet heavy expenses for discharged patients and their families who were not eligible for public assistance. The Ladies' Visiting Committee, the Permanent Charity Fund, the Boston Safe Deposit and Trust Company, the Lend-A-Hand Society and the Weber Charities have also assisted generously in meeting costs for patients.

Medical Clinics and Allied Specialties

Perhaps the greatest single change has been the remodelling and complete refurnishing of the first floor clinic area where Social Service began behind a single white screen in 1905. From four noisy, partially partitioned offices and two open areas, often housing sixteen people including six students, there are as of September, 1963, eleven private offices, a conference area and secretarial unit. This attractive and efficient use of space has done much for the morale of patients and workers alike and has released energies for constructive effort which previously had gone into combating noise and constant interruption. There has been marked increase in referrals of patients with severe social and physical disabilities with a noticeable increase in the 16 to 20 year and 30 to 55 year age groups. Quotes from staff annual reports evidence what continued support is needed by patients and, in turn, by the workers who serve them: "To relate to human beings with severe social and medical pathology one after another with considerable awareness of our own limita-

tions in helping can be an exhausting fare that leaves one feeling spent and inadequate." Factors which help to offset this are attractive, quiet and private quarters, and constant supportive understanding by doctors and nurses. The Social Service staff also gains stimulation and replenishment through its participation in the medical teaching sessions and their weekly meetings with Dr. John Stoeckle. We have yet to solve how to manage worker availability for the ever-increasing intake and yet free workers to have continued appointments with patients coming for support and help.

Children's Services

The comments about stresses in the Medical Clinic apply also to the Children's Service where even less space is available and there are more demands. There are many children and families with severe physical and social deprivations. Mental retardation in children needing institutional care has become a most distressing problem. There is little that medicine can offer and distracted families trying to cope with such severely, often hyperactive, handicapped children need almost constant support. Long waiting lists in public institutions, impossible costs of private care, and six months to a year waiting lists for family and children's agencies in the communities to offer help to these families make our burden almost unmanageable. Patients and families turn to the Hospital which is open and available and does not and cannot close its doors to people in crises.

Surgical Service

Problems and number of referrals are not markedly different but a most encouraging and helpful change has been the increased understanding and awareness of the House Staff in strengthened working relationships, free exchange of ideas, and interested support to the workers in planning for patients. Miss Mackin, Supervisor, writes, "On the whole social rounds are well attended by residents, interns, nurses, dietitian and psychiatric consultant. There appears to be a general willingness and desire to discuss broader medical social implications, less anxiety regarding the terminal patient, and less constant emphasis upon discharge."

Neuromedical and Neurosurgical Service

This past year we have assigned Miss Joan Austin to work with the neurologists and neurosurgeons both with their service patients on White 11 and their private patients in Baker Memorial and Phillips House. This has relieved Miss Kellogg at Baker Memorial and we hope has begun to build a stronger working relationship with the worker and the total neurology staff in serving both service and private patients. Whether to extend this service pattern of coverage to other units is yet debatable, but as more private patients are cared for in the General Hospital floors all workers will be working with the private physician and his patient.

Psychiatric Service

The caseworkers in the Psychiatric Social Service unit have continued to broaden the range and increase the volume of work with patients. Several features are outstanding. First, this year 2,275 individuals were seen, an increase of 340 over the last year. Of these 745 were continued cases. Secondly, the Emergency Unit services were extended in September, 1962, to include all psychiatric problems and in September, 1963, this same unit of workers began to cover all social services of the Emergency Ward with the hours of coverage from 9:00 A.M. to 9:00 P.M., seven days a week. This change is in transition and again moving and lack of space is a problem, but an imaginative and willing staff are rotating on this coverage; and we are continuing to learn about dealing with people in crises and at the point of urgent need. The program support is by the grant from the National Institute of Mental Health for the acute psychiatric services while the Hospital assumes cost of the medical services coverage.

Perhaps in no other unit of the Department has lack of space been more critical than in the Psychiatric Services. These space problems are the inevitable result of increased patient population and needs everywhere. The decision must soon be made as to whether we must give up our distinguished and much needed "open door" policy and limit intake. One cannot pay high enough tribute to the staff who have worked under

such trying circumstances with dedication and loyalty, but we cannot ask this indefinitely.

The Hospital fills an unique and growing service to the community in its twenty-four hours a day, seven days a week open door to people in crises — physical, emotional and social. This is the kind of service we all want to give for it has not only a healing but great preventive potential. It needs community support! Here we may be able not only to alleviate and comfort those in the late stages of illness, but also reach patients in the early stages of emotional illness and those in danger of becoming ill because of threatening life situations.

The following is an example of many such services. A resident surgeon while stitching a badly cut hand of a 42 year old mother of seven children inquired into her difficulties and learned of the recent death of her husband and a beginning drinking problem as her method of coping with her grief. Her own wellbeing and that of her children was threatened. The doctor's referral of the patient to the social worker made early intervention and help immediately available and prevented real family breakdown. If the referring surgeon had been less perceptive Social Service might not have seen this woman until the effects of her drinking and the unresolved grief had intruded enough into the care of the children that the school or a community agency would have had to take action.

Helping a patient to regain self-esteem and make constructive adaptation to a new life situation, while not as dramatic as the replacement of a severed arm, is no less important to the patient and his family. There should be acclaim for a referring surgeon whose skill in perceptiveness to a patient's total problem brings to that patient the many resources in the Hospital available to him.

Limitation of space does not permit reporting on the many other services, but they have been no less busy and dedicated to helping patients and families.

Terminal Care Study

From April through August, 1963, a cooperative pilot study of the after-care planning for 137 terminally ill patients discharged in March, 1963, was carried on, supported by the Divi-

sion of Chronic Diseases, Massachusetts Department of Public Health. Mrs. Ruth Abrams of our staff together with Dr. Alfred Newman and his staff from the Division of Chronic Diseases participated in this study. Many important facts were revealed, which confirmed our concern that lack of facilities for terminal care patients, our own planning, and follow-up needed change. A coordinated discharge facility unit, staffed by a nurse, social worker, doctor consultant and secretary, has high priority as a possible solution.

Staffing

Another project within the Department has been an effort to study and expand our use of sub-professional personnel, namely social work assistants (formerly classified as case aides). Because of the changing situation of short hospital stay and many concrete supportive services we have tried teaming a social worker and an assistant on several units. Surgical White 6 was first; since then Surgical White 7, Orthopedic and Fracture, Bulfinch, Neuromedical and Surgical units have been trying this. Eager, interested assistants have been attending a weekly seminar under direction of Miss Eleanor Clark. Workers have been analysing their work to try to determine what requires their professional knowledge and skills and where they can use the assistant. The key to the program is the social worker and in learning what the assistant can do and what she needs to know to carry out these responsibilities. This leads to better and more appropriate use of the time of the expensive and highly skilled professional staff.

Mrs. Ruth Abrams, who was working on the study of Death and Denial with Dr. Avery Weisman resigned from this Project in July though she continued with the pilot study on Terminal Care until September. Mrs. Abrams has always brought an inquiring mind and dedication and skill to patient care. Her contribution to the Department has been of great value.

Miss Eleanor Clark, Supervisor of the Psychiatric Service since 1957, was appointed Associate Director of the Social Service Department. While she has not given up her basic responsibility for the supervision of the Psychiatric Service, she

has given over some responsibility there and expanded her coverage to certain overall Department work and community and Hospital committees.

Education Program

Again fourteen students from four schools of social work (Boston College, Boston University, Simmons College and Smith College) have received their field practice training in the Department from October through May. In September, 1963, two candidates for the doctoral degree from Smith College School of Social Work began their two year assignment here. Both are capable, experienced people who are adding great stimulus to the Department program.

We complete the year with some regrets and frustrations, but with a deep satisfaction in serving people in an institution dedicated to the best in medical care and led by an Administration whose concern is to help us all to better serve our ever-widening community.

JOSEPHINE C. BARBOUR
Chief of Social Service

Report of the Dietary Department

THE year of 1963 has been an active one in the Dietary Department as evidenced by changes in patterns and procedures in each unit to better serve the patient and the hospital personnel.

When renovations were begun in the Phillips House to modernize the floor pantries it was necessary to modify some of the Main Kitchen procedures. New schedules were evolved to take care of these changes which have resulted in permanent patterns for improved efficiency.

While endeavoring to more nearly equate all patient food service the Baker Memorial dietary staff designed a separate selective menu format for those on "special diets."

The all time high census — 2,217,119 (993,719 meals for patients plus 1,223,400 meals served in the cafeteria) necessitated a total expenditure of $821,985.85 for food received by and distributed from the Food Store.

The principal change in the White Kitchen was the reconstruction of the icecream room. The new unit incorporates several time-and-money-saving features. A manual filler supplements a 5-gallon batch-type freezer, and wire racks each accommodate eighteen 4-oz. cups with clamp-over lids. These racks provide portion control, and the ice cream is kept frozen solid until serving time. In the cafeterias, self-service of the individual portions has replaced hand dipping.

Cafeteria patrons appreciate the new color scheme, the vinyl plastic flooring and the convenience of the new cash registers with change makers. The cubicled area in the General Cafeteria contributes to a more business-like atmosphere for office procedures. The ratio of cash to credit meals was altered in July when the House Officers were put on a cash plan.

Menu patterns for the White, Bulfinch and Vincent-Burnham Buildings have been modified to compare with the semi-private service so far as can be accommodated by existing equipment. Renovations in the pantries on the Surgical Service were com-

pleted; new floors and ceilings have been installed on the Medical Service; the Children's Service closed the Formula Room in Vincent-Burnham and pre-packaged, ready made dispensable formulae are presently stocked in the Food Store.

The Nutrition Clinic census records reflect public health problems; of the new diet orders 47% included caloric restriction.

We continue to develop leadership for the future of our profession. Twenty-one graduate students are enrolled in the Dietetic Internship program this year. Their course has been accelerated as we reduced their on duty time affording them a 40 hour week. Miss Wilma Robinson, Educational Liaison Director of the American Dietetic Association paid an informal visit in August.

One of the principal concerns of the Dietary Department during 1963 has been a study of the many changes which will accompany the construction of the North Building. We look forward to the opportunity to improve our services through the anticipated construction and/or renovation.

LOUISE HATCH
Director, Dietary Department
and School of Dietetics

Report of the Volunteer Department

TODAY'S hospital patients can spend part of their time of recuperation watching fictionalized space ship adventures on television programs. Tomorrow's patients may be recuperating in space ships.

That, at least, is the possibility projected by a report of the House Space Committee released in Washington. Among specific possibilities it considers the use of hospital space ships. Will hospital volunteers be on the hospital team? Based on their past and present record, I believe hospital volunteers will make an important and far-reaching contribution in this direction.

There was a record attendance this year at the annual Christmas Volunteer Tea given by the Trustees and General Director. Dr. Chester M. Jones, Chairman of the Advisory Committee to the Volunteer Department, introduced Mr. Francis C. Gray, Chairman of the Board of Trustees, who presented the Jessie Harding Award for Volunteer Service to the first recipient, Mrs. Doris Taylor Black. Mr. Gray read the following citation: "To you, Doris Taylor Black, I have the privilege of presenting the Jessie Harding Award for Volunteer Service, in recognition of twenty years of continuous and devoted service to the many patients that you have helped at the Massachusetts General Hospital. Your work as a Volunteer has been one of intense human interest in sick people, to whom you have given freely and unremittingly of your time and strength. You have made rough paths smoother; you have given hope and confidence to those who were fearful, and have provided kindly understanding to those who were doubtful. You have earned our respect and gratitude for your selfless but very tremendous contribution to the work of this hospital." It behooves us all to emulate the fine spirit of brotherhood which motivates the volunteer hospital worker.

Significant for the future were numerous developments involving the formalizing of a men's volunteer service. In a move to bolster the male volunteer's position in our service, a new

uniform was introduced, a cherry red coat, presently being called a hunting coat. With this innovation and the support of administration providing leadership and guidance to assure unity to the entire program, I believe that we will reach new heights of achievement.

Ten doctors from Argentina, Japan, Mexico, the Philippines, Turkey and the United States, enrolled in Dr. Bland's post-graduate course in Cardiovascular Diseases, met with me to exchange ideas of practices concerning hospital volunteer services in their states and countries. Numerous other hospital personnel have also visited with us.

Increased attention was focused on our service and our four weeks training course for Directors of Hospital Volunteers as a result of publicity appearing in state and national hospital publications. Miss Mary Louise Jorgenson, Director of Volunteers and secretary to the Administrator of Bethesda Hospital, Crookston, Minnesota, and Mrs. Margaretta Y. Sander, an MGH volunteer and formerly of California, were both presented certificates by Dr. John H. Knowles, General Director, upon their completion of the course.

With the burning enthusiasm, imagination, persistence, and effort of our very able leaders we now have fourteen service projects, an increase of six over last year. Two of the most recent groups are: The Young Women's Auxiliary of the Armenian Holy Trinity Church in Cambridge and the Sudbury Art Association, bringing the sum total number of volunteers to 668 with a contribution of 53,257 hours. The success or failure of our service does not depend on how many volunteers we have or how many hours they contribute. The real challenge is to organize the activities of our volunteers so that human effort results in the gratification of human needs.

We record with deep regret the deaths of three volunteers, Mrs. Israel B. Goldberg, Miss Kate Saunders, and Mrs. Bonnie Sprague. Their devoted, loyal and outstanding service will be sadly missed.

The quality of service provided in the past is a constant source of inspiration, the work is endless, and therefore always a challenge. For quite some time we have been unable to give the staff sufficient leadership and guidance. Research and fur-

ther experimentation are clamoring to be done and since our staff has consisted of a Director and Secretary from the time of the Department's establishment in 1941, we are hopeful that Administration will grant our request for additional assistance.

MARY RUTH WOLF
Director
Volunteer Department

Report of the Treadwell Library

THE one most significant event for the Treadwell Library during fiscal 1963 was the good news that it had been assigned additional space adjoining the Smoking Room. As this report is being written final plans are ready and estimates are being obtained, so that, hopefully, the new room will be ready for occupancy during 1964. This will make possible the shelving of all abstracts and index serials in a single literature searching area and will greatly alleviate the crowding in the book stacks.

It has been the custom to simply mention that a certain number of our books and periodicals have been donated to the Library and to acknowledge this by placing the name of the donor on the bookplate. This year attention will be called to a number of individuals, Hospital Departments, publishers and other organizations who have consistently, over the past ten years, given publications to the Treadwell Library. Among individuals who have given ten or more books on a more or less regular basis are: Dr. H. K. Beecher, Dr. E. B. Benedict, Dr. Louis Dienes, Dr. James C. White, Dr. Francis M. Rackemann, Dr. Stanley Cobb, Dr. Arthur L. Watkins, Dr. Joe V. Meigs, Dr. James H. Means, Dr. James R. Lincoln, Dr. Walter Bauer, Dr. Edwin I. Cave, Dr. George L. Nardi, Dr. E. D. Churchill, Drs. John and William Quinby, Dr. Francis Burnett, Dr. Harold L. Higgins, Dr. Gordon S. Myers, Dr. John B. Stanbury, Dr. Joseph Barr, and Dr. Benjamin A. Barnes. In addition we have received many monographs and textbooks from the private libraries of Dr. Walter Bauer, Dr. E. B. Benedict, Dr. Richard H. Sweet, Dr. James C. White, and Dr. James H. Means. Among the Hospital Departments that regularly donate journals no longer needed are: the Administration, Huntington Memorial Laboratories and the following services: Medical, including Allergy and Arthritis Units, Surgical, Gynecology, Neurology, Pathology, Cardiology, Dermatology, Orthopedic, and

Children's. Many of these departments have discontinued the maintenance of large collections and expect the Treadwell Library to be the central resource for their literature needs, although most of them do keep the more important of their specialty journals and books for quick reference and for use by members of their services on a 24-hour basis. This system of giving unwanted journals to the Treadwell has made it possible for us to have more complete sets of circulating duplicates. Those we cannot use are listed for the Medical Library Association Exchange or sent to the U. S. Book Exchange. In this way we are helping other libraries to complete their collections.

Until about three years ago the Committee on Research allocated a small amount of money toward the purchase of books and journals for those engaged in basic research. In this way about 700 publications were added to the collections. The income from the Alice Irene Outhouse Fund has been used for the purchase of pediatric journals, The Dietary Department has purchased several pertinent journals for use by the dietary interns, and the income from the Terry Shuman and Charles A. MacDonald Funds is used for the purchase of neurological publications. In addition the Library has been the recipient of a constantly growing number of books from the Ciba Pharmaceutical Company, National Library of Medicine, National Cancer Institute, National Science Foundation, American Surgical Association, American Neurological Association, Association of American Physicians, National Foundation, A.M.A. Council on Drugs, University of Texas School of Medicine, Harvard Medical Library, Boston Medical Library, Mount Sinai Hospital (New York), Little, Brown and Company's Medical Department, and two foreign medical libraries—Umeå Medical School Library, Umeå, Sweden, and the Tohoku University School of Medicine Library, Tohoku, Japan. Also, books written or edited by members of the Hospital Staff are presented to the Library. During the past ten years some 300 donors have helped us build our collections.

In the Spring of 1963 a second edition of the Treadwell Library brochure was published. This was distributed to all new House Officers and Research Fellows, in July, along with other information material by the Community Relations Office. A

copy was also given to each of the librarians from overseas who visited the Library during the year.

Meetings attended by the Librarian included the New England Conference on Community Health Records Management at the Sheraton-Plaza, Boston, November 16-17, 1962; the Advisory Council of Special Libraries Association, Cleveland, February 14-16, 1963; Special Libraries Association, Denver, June 8-14, 1963 when she presided as Chairman of the Biological Sciences Division at its annual business meeting and other activities; Medical Library Association and Second International Congress on Medical Librarianship, Washington, D.C., June 15-22, 1963. Miss Cole continues as a member of the subcommittee on recruitment to medical librarianship for this association and is now Secretary of the Boston Chapter, Special Libraries Association.

The Boston Medical Librarian Council met once during the year to make plans for the visits of the many foreign librarians who came to Boston either before or after the Second International Congress on Medical Librarianship. Since a large group visited Boston during the latter part of June, the staff of the Treadwell Library and Miss Diane C. Keenan, Librarian, Palmer-Davis Library in the School of Nursing, entertained about forty of them for tea in the Cabot Memorial Room after a tour of the Hospital which included the Archives, Palmer-Davis and Warren Libraries, the Ether Dome, and Howe Library in the Massachusetts Eye and Ear Infirmary.

In August Miss Carol Tucker, Librarian, St. Johns General Hospital, St. Johns, Newfoundland, spent three weeks in the Treadwell Library studying technical processing methods and the cataloging and classification of books.

Staff changes during the year included the resignations of the Misses Ruth E. Raymond and Lorraine Saltre. They were replaced by the Misses Judy Luxford and Rachel McLaughlin with Miss Margaret B. Kendrick working during the summer until Miss McLaughlin could assume her duties in September. Clerical help during the day was provided by part time workers David Crossman and Richard Burton. The latter, who does most of the photocopying and shelving, also worked full time during the summer. The Misses Judith Mederos and Shirley

McMahon, Mrs. Betty Minton, John McCormick, Frederick A. Phillips, Tyrone Woo, and Samir Hoodboy worked as night clerks.

Our special thanks go to Mrs. Hiram N. Crowell, Miss Celia Palmieri and Miss H. Bernice Sweeney who volunteered for a total of two days a week during most of the year.

To each member of the Treadwell Library Committee I wish to convey appreciation for the advice and help he has given in solving the many and varied problems associated with the operation of the Library.

The statistics which follow show that as the number of pages photocopied in the Library has increased, the number of loans of actual volumes has decreased as has the number of items borrowed from other libraries. Also, there has been a slight increase in the number of both day and evening readers.

	1962	*1963*
Number of periodical volumes	14,415	15,447
Number of other volumes	10,246	10,609
Number of pamphlets (approximate)	2,000	2,500
Number of photocopies received from the National Library of Medicine	208	210
Number of pages photocopied in Treadwell	21,177	64,010
Number of items given away (approximate)	2,908	827
Number of periodicals currently received	530*	560**
Number of volumes loaned	4,011	3,579
Number of unbound periodicals loaned	1,411	912
Total number of loans	5,422	4,491
Number of items borrowed from other libraries	1,468	1,413
Number of items loaned to other libraries	132	135
Number of persons using the library during the day	27,509	28,943
Number of persons using the library during the evening	5,641	5,740
Total number using the library	33,150	34,683

* Includes 365 purchased, 41 annuals and 124 gifts.
**Includes 386 purchased, 58 annuals and 116 gifts.

GENEVIEVE COLE, *Librarian*
Treadwell Library

Dalton Scholarships

THE income of this fund, amounting to $1,000 annually, is devoted to investigation in the science of medicine. The rules of the Trustees applicable to it are as follows:

ARTICLE 1. Candidates shall be nominated to the Board of Trustees by the General Executive Committee with their recommendations. They shall be either interns of the General Hospital or graduates of a regular American medical college.

ARTICLE 2. The nature of the work in medical investigation proposed to be prosecuted by each candidate shall be designated by the candidate.

ARTICLE 3. The dates of beginning and ending scholarships, the amounts of the stipends and the conditions of work shall in each case be recommended by the General Executive Committee to the Board of Trustees.

ARTICLE 4. The results of work of scholars shall appertain to the Hospital, and when made public the name of the scholar shall accompany the publication, but no publication shall be made unless approved by the General Executive Committee.

ARTICLE 5. When the income is insufficient, appointments for the year may be omitted.

ARTICLE 6. Any income not used shall be cumulative and not added to the principal.

ARTICLE 7. Scholars shall be eligible for renomination and reappointment.

Further information may be had by applying to the General Director of the Massachusetts General Hospital.

Warren Triennial Prize

THE Warren Triennial Prize was founded by the late Dr. J. Mason Warren in memory of his father, and his will provides that the accumulated interest of the fund shall be awarded every three years to the author of the best dissertation considered worthy of a premium on some subject in Physiology, Surgery, or Pathological Anatomy, the arbitrators being the General Executive Committee of the Massachusetts General Hospital.

In 1965 the prize will be awarded in the form of a lectureship at the Massachusetts General Hospital. The Warren Prize Lecturer, selected for outstanding work in medical science, will be nominated to the Trustees by the General Executive Committee.

The submission of special theses or essays will no longer be required for this competitive prize.

JOHN H. KNOWLES, M.D.
General Director

Statistical and Comparative Tables

Statistical and Comparative Tables

TOTAL EXPENSES

	Service	Out-Patient Department	Private	Semi-Private	Miscellaneous	Total
1954.....	3,168,890.	1,012,659.	1,006,092.	2,407,785.	3,229,039.	10,824,465.
1955.....	3,575,242.	1,008,501.	1,042,335.	2,512,596.	3,473,377.	11,612,051.
1956.....	4,261,912.	1,158,356.	1,203,094.	2,770,015.	3,690,189.	13,083,566.
1957.....	4,476,986.	1,334,795.	1,304,260.	2,934,279.	4,518,960.	14,569,280.
1958.....	5,375,433.	1,483,044.	1,523,384.	3,406,112.	2,378,576.*	14,166,549.
1959.....	5,575,972.	1,605,612.	1,666,735.	3,714,185.	2,794,412.*	15,356,916.
1960.....	6,052,617.	1,739,500.	1,770,265.	4,155,916.	3,501,466.*	17,219,764.
1961.....	5,968,122.	1,701,771.	2,004,181.	4,301,078.	4,247,635.*	18,222,787.
1962.....	7,076,629.	1,889,216.	2,184,933.	4,822,094.	4,781,332.*	20,754,204.
1963.....	7,872,987.	2,068,936.	2,366,081.	5,185,708.	5,394,943.*	22,888,655.

TOTAL NET EARNINGS

1954.....	1,958,527.	648,324.	1,177,469.	2,638,040.	1,512,106.	7,934,466.
1955.....	2,357,868.	645,829.	1,235,431.	2,718,253.	1,700,183.	8,657,564.
1956.....	2,900,094.	659,737.	1,434,467.	2,966,123.	1,762,277.	9,722,698.
1957.....	2,927,985.	792,358.	1,523,634.	3,423,917.	2,155,307.	10,823,201.
1958.....	3,570,656.	864,742.	1,790,032.	3,897,908.	2,401,304.	12,524,642.
1959.....	3,837,852.	856,443.	1,976,648.	4,508,186.	2,660,813.	13,839,942.
1960.....	4,023,076.	954,376.	2,312,042.	5,012,325.	2,971,008.	15,272,827.
1961.....	4,660,384.	1,032,484.	2,725,019.	5,204,960.	3,385,425.	17,008,272.
1962.....	5,627,922.	1,129,728.	2,870,807.	5,677,968.	3,861,606.	19,168,031.
1963.....	6,104,147.	1,263,055.	3,165,594.	6,392,908.	4,381,790.	21,307,494.

* Research Funds excluded.

COMBINED CLINICS

	New Cases	Total Number of Visits	Daily Average	Total Number Prescriptions Filled
1954	15,226	181,774	602—	121,424
1955	14,577	187,747	622—	126,067
1956	13,079	186,517	618—	127,885
1957	13,173	211,205*	699+	129,179
1958	12,283	216,216*	716—	129,622
1959	12,491	225,256*	746	133,103
1960	12,442	225,456*	732	139,472
1961	11,996	206,395*	683	136,676
1962	12,336	204,583*	674	151,915
1963	11,736	189,679*	626	151,734

	Cost of Combined O. P. D.	Aver. Cost per Visit in Comb. Depts.	Total Net Receipts	Aver. Net Receipts	M. G. H. Share of Cost	MGH Share of Net Receipts
1954	1,069,175	5.88	671,304	3.69	888,492	517,888
1955	1,088,976	5.80	685,386	3.65	889,033	527,948
1956	1,243,689	6.67	673,815	3.61	1,022,144	525,917
1957	1,420,258	6.72	806,433	3.82	1,191,370	651,397
1958	1,565,229	7.24	868,250	4.02	1,327,536	710,984
1959	1,704,172	7.57	917,333	4.07	1,454,023	707,470
1960	1,868,276	8.29	1,042,143	4.62	1,592,537	809,164
1961	1,836,817	8.90	1,115,399	5.40	1,543,860	878,732
1962	2,108,132	10.30	1,265,340	6.18	1,753,524	975,063
1963	2,275,392	11.30	1,433,034	7.11	1,912,033	1,108,820

EMERGENCY WARD

	No. of Patients Treated	Routine Cost	Ancillary Cost	Total Cost	Total Net Receipts
1962	42,792	358,931	153,075	512,006	261,003
1963	47,191	415,352	171,567	586,919	303,040

*Includes Staff and Other — See page 137.

MASSACHUSETTS GENERAL HOSPITAL

Income and Expense Statement

General Fund

	Total 1963	*Total 1962*
Operating Income		
Private Patients	$ 3,220,223	$ 2,981,044
Semi-Private Patients	6,815,082	6,168,092
Ward Patients	8,386,912	7,890,584
Out-Patient Department	1,418,295	1,286,746
Private Ambulatory	743,154	559,601
Emergency Ward	424,707	384,672
Total Earnings from Services to Patients	21,008,373	19,270,739
Less: Deductions from Earnings		
Charity Allowance	1,725,725	1,628,457
Other Rebates and Losses	1,599,764	1,730,947
Net Provisions for Doubtful Accounts	71,745	58,108
Total Deductions from Earnings	3,397,234	3,417,512
Net Earnings from Service to Patients	17,611,139	15,853,227
Other Income	3,696,355	3,314,804
Total Income	21,307,494	19,168,031
Operating Expenses		
In-Patients	15,424,776	14,083,656
Out-Patients	1,912,033	1,753,524
Private Ambulatory	636,257	401,444
Emergency Ward	586,919	512,006
Total Patient Expenses	18,559,985	16,750,630
Add: Other Expenses (Including Indirect Cost of Research)	4,328,670	4,003,574
Total Expenses	22,888,655	20,754,204
Net Deficit	1,581,161	1,586,173
Available from Treasurer for Expenses at Hospital	1,557,245	1,538,155
Final Deficit—Withdrawn from General Fund Principal	23,916	48,018

MASSACHUSETTS GENERAL HOSPITAL

Statement of Special Fund Expenditures

	1963		1962	
Research Fund Expenditures				
Contract				
Salaries and Wages	$ 132,903.18		$ 80,933.51	
Supplies and Expenses	209,474.06	$ 342,377.24	193,946.19	$ 274,879.70
Gifts and Grants				
Salaries and Wages	3,111,430.00		2,778,078.79	
Supplies and Expenses	3,544,754.48		2,929,861.58	
	6,656,184.48	6,656,184.48	5,707,940.37	5,707,940.37
Miscellaneous Income	452,826.34		212,628.18	
Net Expenses	$6,203,358.14		$5,495,312.19	
Other Fund Expenditures				
Contract				
Salaries and Wages	$ 290,964.71		$ 249,091.21	
Supplies and Expenses	515,756.84	806,721.55	475,513.15	724,604.36
Other Special Purpose Funds				
Salaries and Wages	212,556.29		160,108.66	
Supplies and Expenses	377,176.66		194,480.11	
	589,732.95	589,732.95	354,588.77	354,588.77
Miscellaneous Income	322,365.77		168,735.26	
Net Expenses	$ 267,367.18		$ 185,853.51	
MGH Surgical Associates				
Salaries and Wages	$ 709,617.82		$ 561,484.13	
Supplies and Expenses	232,744.93		201,253.65	
	$ 942,362.75	942,362.75	$ 762,737.78	762,737.78
Total Fund Expenditures		$9,337,378.97		$7,824,750.98

MASSACHUSETTS GENERAL HOSPITAL

STATEMENT OF STOCK ON HAND SEPTEMBER 30, 1963 AND SEPTEMBER 30, 1962

	Sept. 30 1963	*Sept. 30 1962*
General Hospital Apothecary Out-Patient Department Apothecary	$290,960.54	$172,036.70
General Hospital Upper Store	185,336.23	185,461.56
General Hospital Lower Store	19,113.98	16,916.34
General Hospital Maintenance	69,771.53	69,672.15
General Hospital Postage	843.22	1,269.24
General Hospital Print Shop	3,916.32	3,195.99
Other	388,916.81	297,725.27
Total Stock on Hand	$958,858.63	$746,277.25

SERVICE IN-PATIENT STATISTICS
For the Years 1954-1963

	No. Patients Admitted	Average No. of Patients Per Day	No. of Beds Available	Percentage of Beds Occupied	Patient Days	Average Stay in Hospital	Number of Operations	Deaths		
								Total Number	% of Admissions	Autopsies
1954	10,521	350	451	77.5	127,496	12+	7,052	585	5.56	71%
1955	11,586	389	461	84.3	141,585	12+	6,868	680	5.86	69%
1956	11,083	387	436	91.8	141,231	13—	7,225	671	6.04	66%
1957	11,734	367	454	83.1	133,521	12—	7,745	778	6.63	67%
1958	11,890	388	454	86.9	141,371	12—	6,991	866	7.28	64%
1959	11,954	390	454	86	142,097	12—	7,098	784	6.56	67%
1960	11,547	361	459	78.7	134,047	11+	7,015	843	7.30	63%
1961	11,607	381	459	83	138,687	12—	7,613	784	6.75	68%
*1962	13,598	408	465	78	148,424	11—	7,667	934	6.87	66%
**1963	14,461	413	501	82	150,650	10+	8,353	982	6.79	62%

Total number of patients admitted to General Hospital from the year 1821 — 612,929.

*Private pediatric patients included in Service category 1962 — 1,521 admissions — 10,469 patient days.

**Private pediatric patients included in Service category 1963 — 1,833 admissions — 12,797 patient days.

SEMI-PRIVATE IN-PATIENT STATISTICS
For the Years 1954-1963

1954	8,220	273	314	86.2	98,461	11+	4,765	194	2.36	58%
1955	8,390	264	314	84.7	96,211	11+	4,588	243	2.89	58%
1956	8,651	281	334	82.3	102,484	12—	4,887	221	2.55	69%
1957	9,086	282	338	80.4	102,738	11+	4,954	268	2.94	63%
1958	9,296	292	311	91.2	106,450	11+	4,851	279	3.00	68%
1959	10,105	309	339	91.1	112,351	10+	4,215	316	3.13	57%
1960	10,546	321	340	94.4	119,167	11+	5,359	354	3.36	67%
1961	10,689	334	340	98.4	116,932	11+	5,459	369	3.45	69%
1962	9,714	328	330	99	119,486	12+	6,075	384	3.95	71%
1963	9,934	347	336	103	126,525	13—	6,229	404	4.07	77%

Total number of patients admitted to Baker Memorial from the year 1930 — 233,817.

PRIVATE IN-PATIENT STATISTICS
For the Years 1954-1963

1954	2,616	84	94	88.5	30,736	11+	1,312	76	2.90	69%
1955	2,607	88	103	84.9	32,266	11+	1,153	74	2.74	72%
1956	2,940	101	103	93.2	36,938	12+	1,251	80	2.75	73%
1957	2,878	101	115	88.5	36,909	12+	1,386	75	2.96	69%
1958	3,053	100	122	77.7	36,396	12+	1,192	93	3.05	83%
1959	3,275	115	134	85.7	41,784	12—	1,366	93	2.84	69%
1960	3,517	110	132	83.6	40,924	12—	1,487	100	2.84	70%
1961	3,803	118	159	74.1	42,429	11+	1,467	115	3.02	73%
1962	4,274	129	170	76	46,996	11—	1,556	122	2.85	70%
1963	4,407	148	162	91	54,047	12+	1,612	121	2.75	65%

Total number of patients admitted to Phillips House from the year 1917 — 119,685.

COMBINED M.G.H AND EYE & EAR CLINICS

	New Patients		Subsequent Visits		Staff & Other	
	1963	*1962*	*1963*	*1962*	*1963*	*1962*
Admitting Physician	655	737	1,636	1,728	1	3
Medicine	449	455	20,241	21,729	99	75
Alcohol	60	71	1,359	1,472	490	460
Allergy	7	2	4,656	5,048	622	700
Anemia	—	—	—	—	—	—
Hematology	1	2	607	410	1	2
Arthritis	34	11	1,129	1,096	13	32
Diabetes	3	1	2,593	2,841	64	110
Gastro-Intestinal	4	3	1,041	1,110	2	2
Cardiac	21	14	959	959	9	4
Hypertension	2	1	854	885	6	21
Nutrition	5	—	210	245	220	298
Ovarian Dysfunction	1	—	79	—	19	—
Podiatry	2	1	1,323	1,406	233	221
Pulmonary	2	6	428	539	17	14
Rheumatic Fever	2	2	462	514	2	—
Thyroid	—	—	2,030	2,040	2,266	1,248
Dermatology	537	674	5,985	6,953	1,691	1,851
Syphilis	96	63	911	1,079	448	1,061
Neurology	15	95	5,338	5,816	821	427
Language	—	18	5,560	5,937	7	4
Psychiatry	478	405	5,162	4,651	2,097	1,642
Child Psychiatry	23	10	1,946	1,859	2	4
Children's Medicine	701	748	3,491	3,872	3,297	2,763
Adolescent Endocrine	22	31	828	900	24	26
Surgery	295	298	12,076	12,133	741	800
Amputation Clinic	23	22	235	178	1	—
Amputation Rounds	31	44	207	164	—	—
Fracture	3	11	3,696	4,025	109	133
Hand	14	15	276	293	11	8
Plastic Surgery	3	5	472	371	5	3
Rectal Surgery	—	—	61	92	4	7
Vascular Surgery	2	2	554	442	4	10
Gynecology	142	151	3,612	3,304	351	329
Orthopedic Surgery	318	347	5,751	6,324	482	453
Infantile	—	—	—	—	—	—
Scoliosis	—	—	—	15	—	—
Urology	146	124	4,737	4,753	247	237
Stone	—	—	—	—	—	—
Dentistry	352	447	2,526	2,978	1,049	1,153
Tumor	137	141	7,601	7,358	107	58
Rehabilitation	9	—	343	470	1	
General Hospital Clinics	4,595	4,957	110,975	115,989	15,563	14,159
General Hospital Totals	4,595	4,957	110,975	115,989	15,563	14,159
Ear, Nose and Throat	2,602	2,764	17,227	18,229	970	877
Eye	4,539	4,615	42,670	41,297	2,274	1,696
Eye & Ear Infirmary Totals	7,141	7,379	59,897	59,526	3,244	2,573
Combined Out-Patient Department Totals	11,736	12,336	170,872	175,515	18,807	16,732

	1963	*1962*
Total Attendance	201,415	204,583

RADIOLOGICAL DEPARTMENT

General Hospital	*1963*	*1962*
House Patients Examined	23,139	22,605
Out-Patient Department patients examined	11,376	12,222
Emergency Ward patients examined	14,606	13,859
Staff patients examined	3,072	2,669
Total number patients examined	52,193	51,355
X-Ray treatments given (Inc. Baker & Phillips House)	*24,921	**20,808
Number of examinations	72,536	71,261
Total number of examinations and treatments	97,457	92,069
Phillips House		
House patients examined	6,000	5,610
Private patients examined	—	—
Total number patients examined	6,000	5,610
Number of examinations	8,993	8,255
Total number of examinations	8,993	8,255
Baker Memorial		
House patients examined	16,856	16,026
Private patients examined	14,217	11,713
Total number patients examined	31,073	27,739
Number of examinations	43,113	39,268
Total number of examinations	43,113	39,268
Entire Hospital (Combined Statistics)		
Total number patients examined	89,266	84,704
Total number patients treated	1,567	1,247
Total number patients examined and treated	90,833	85,951
Total number examinations	124,642	118,784
Total number treatments and observations	24,755	24,407
Total number of radium & isotopes treatments	166	134
Total number examinations, treatments and observations, radium & isotopes	149,563	143,325

* Includes 166 Radium & Isotope cases
**Includes 134 Radium & Isotope cases

PHYSICAL MEDICINE DEPARTMENT

Physical Therapy

Treatments given:	*1963*	*1962*
Out-Patient Department	2,177	1,436
General Hospital (including Eye and Ear Infirmary)	10,932	11,543
Phillips House	2,396	1,810
Baker Memorial	6,808	5,479
Private ambulatory patients	7,258	7,493
Total treatments given	29,571	27,761

NURSING DEPARTMENT

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Average No. of Graduates on General Hospital Staff	220	187	194	190	254	249	260	253	257	302
Average No. of Graduates on School of Nursing Staff		42	41	44	46	48	49	48	50	50
Average No. of Graduates on Baker Memorial Staff	80	60	58	60	78	75	70	73	81	87
Average No. of Graduates on Phillips House Staff	55	55	58	62	76	83	84	85	86	97
Average No. Accepted Pupils	282	286	279	267	296	314	237	348	339	340
Average No. Preclinical Students†	71	72	68	74	77	66	129	124	125	128
Average Total	708	625	698	697	827	834	829	807	938	876
Total No. Preclinical Students† Admitted	143	139	125	186	135	134	148	134	147	164
Preclinical Students† Dropped and Resigned	28	21	12	14	6	15	16	39	28	43
Average No. of Graduates on General Hospital Staff—*Part time	11	11	20	17	18	12	12	13	18	16
Average No. of Graduates on Baker Memorial Staff—*Part time	12	8	10	5	5	7	13	13	14	14
Average No. of Graduates on Phillips House Staff—*Part time	6	9	9	11	5	6	6	8	17	16
Total *Part time graduates	29	28	39	33	28	25	31	34	49	46

*Part time nurses expressed in equivalent of full time.

†Now called Freshman year.

Report of the Treasurer

In accordance with Article 5 of the By-Laws, the Annual Report of the Treasurer for the fiscal year ending September 30, 1963, approved by Patterson, Teele & Dennis, Auditors, is respectfully submitted.

THE MASSACHUSETTS GENERAL HOSPITAL
CONDENSED YEAR-END BALANCE SHEET

	Sept. 30, 1963	*Sept. 30, 1962*
ASSETS		
CASH	$ 2,562,062.27	$ 2,693,303.99
INVESTMENTS		
Bonds	19,454,036.00	18,984,583.02
Stocks	19,789,660.53	19,034,411.47
Notes and Commercial Paper	1,961,635.96	1,554,412.62
Real Estate	170,820.86	170,820.86
ACCOUNTS RECEIVABLE — PATIENTS AND OTHERS (Less Allowance for Doubtful Accounts)	6,218,606.34	6,091,260.90
NOTES RECEIVABLE	1,022,836.97	716,420.34
INVENTORY OF SUPPLIES — AT ESTIMATED COST	681,262.84	807,315.12
PREPAID ITEMS	64,847.52	63,200.00
INTEREST IN UNSETTLED ESTATES, ETC.	10.00	11.00
PLANT — Less Depreciation	23,863,506.78	22,615,430.52
CONSTRUCTION IN PROGRESS	1,978,969.57	1,265,870.29
	$77,768,255.64	$73,997,040.13
LIABILITIES		
ACCOUNTS PAYABLE AND ACCRUALS	$ 1,383,756.55	$ 945,288.01
PENSION RESERVES	532,625.30	463,603.57
W.C.A. AND REPAIR RESERVES	150,568.43	249,872.52
GENERAL FUND		
Treasurer's Account	598,476.70	424,477.42
Director's Account	5,296,923.28	5,497,698.36
GENERAL HOSPITAL ENDOWMENT FUNDS		
Unrestricted as to Income	5,180,086.90	5,179,003.82
Restricted as to Income	18,093,435.65	17,851,464.78
MCLEAN HOSPITAL FUNDS		
General Fund		
Treasurer's Account	(908,720.25)	(778,506.88)
Director's Account	827,516.54	687,815.47
Endowment Funds	1,798,601.18	1,384,873.87
BUILDING FUNDS	3,190,907.96	2,501,782.71
FIDUCIARY FUNDS	562,531.68	543,726.53
FUNDS INVESTED IN PLANT	23,863,506.78	22,615,430.52
TEMPORARY FUNDS		
General Hospital	5,899,277.41	5,858,738.39
McLean Hospital	338,014.08	358,659.30
Fiduciary	11,823.48	10,661.40
GENERAL INVESTMENT PROFIT AND LOSS ACCOUNT	10,948,923.97	10,202,450.34
	$77,768,255.64	$73,997,040.13

THE MASSACHUSETTS GENERAL HOSPITAL

GENERAL HOSPITAL

CONDENSED INCOME STATEMENT

(for fiscal year ending Sept. 30)

	1962-63	*1961-62*
TREASURER'S RECEIPTS		
GIFTS		
Unrestricted	$ 191,890.00	$ 196,054.00
Annual Free Beds	5,314.63	3,638.00
Restricted	5,883,618.28	7,346,784.02
	$ 6,080,822.91*	$ 7,546,476.02*
INCOME FROM INVESTMENTS		
Unrestricted	$ 377,567.02	$ 375,873.29
Restricted	1,329,081.60	1,214,432.44
	$ 1,706,648.62	$ 1,590,305.73
OTHER INCOME		
From Trusts and Agents	$ 12,512.87	$ 10,501.66
Contributions for Connecting Building	11,498.00	10,413.00
Huntington Memorial Hospital	25,759.78	23,487.92
Miscellaneous	1,352,682.66	1,070,238.29
	$ 1,402,453.31	$ 1,114,640.87
TOTAL	$ 9,189,924.84	$10,251,422.62
RESTRICTED INCOME NOT APPLIED	40,539.02	2,055,806.73
	$ 9,149,385.82	$ 8,195,615.89
PAYMENTS FROM INCOME		
Added to Principal	$ 52,726.67	$ 73,074.23
Treasurer's Payments From Funds and Miscellaneous	126,325.67	140,483.21
	$ 179,052.34	$ 213,557.44
TREASURER'S BALANCE AVAILABLE FOR EXPENSES AT HOSPITAL	$8,970,333.48	$ 7,982,058.45
HOSPITAL EXCESS OF EXPENSES	8,994,249.58	8,030,076.05
DEFICIT—WITHDRAWN FROM GENERAL FUND PRINCIPAL	$ 23,916.10	$ 48,017.60

* Includes Community Fund Allocation of $184,155.00 for 1962-63, and $175,674.00 for 1961-62.

THE MASSACHUSETTS GENERAL HOSPITAL
McLEAN HOSPITAL
CONDENSED INCOME STATEMENT
(for fiscal year ending Sept. 30)

	1962-63	*1961-62*
TREASURER'S RECEIPTS		
GIFTS		
Unrestricted	$ 236.03	$ —0—
Restricted	$493,965.14	523,978.45
	$494,201.17	$523,978.45
INCOME FROM INVESTMENTS		
Unrestricted	$ 13,329.69	$ 12,599.33
Restricted	50,422.94	46,878.97
	$ 63,752.63	$ 59,478.30
OTHER INCOME		
From Trusts and Agents	$ 5,975.00	$ 5,415.00
Miscellaneous	5,979.79	26,526.58
	$ 11,954.79	$ 31,941.58
TOTAL	$569,908.59	$615,398.33
RESTRICTED INCOME NOT APPLIED	(20,645.22)	57,605.10
	$590,553.81	$557,793.23
PAYMENTS FROM INCOME		
Added to Principal	$ 744.08	$ 326.73
Expenses Paid from Funds and Miscellaneous	8,484.49	8,316.49
	$ 9,228.57	$ 8,643.22
TREASURER'S NET RECEIPTS	$581,325.24	$549,150.01
HOSPITAL EXCESS OF EXPENSES	578,830.18	632,568.30
DEFICIT	$ (2,495.06)	$ 83,418.29
PROVISION FOR IMPROVEMENT AND ALTERATION IN EXCESS OF EXPENDITURES	—0—	53,085.59
WITHDRAWN FROM FUNDS	$ (2,495.06)	$136,503.88

GENERAL FUND

	Income	Principal
FOR ANY HOSPITAL PURPOSE		$598,476.70

GENERAL HOSPITAL FUNDS

	Income	Principal
FLORENCE M. AGOOS MEMORIAL FUND For developing and furthering medical research and scientific medical knowledge through research and teaching. Bequest of Solomon Agoos		$10,000.00
PHILIP R. AND ANNE L. ALLEN ENDOWMENT FUND Income for any Hospital Purpose.		80,283.00
ANESTHESIA FUND Income to be used to supply laboratory facilities or such other advantages as the Trustees may determine for the Chief of the Anesthesia Department.		80,667.09
MARTHA B. ANGELL FUND For medical and surgical experimentation on animals to the end of saving human lives.		34,040.82
ARCHIVES, PICTURES AND HISTORICAL RELICS FUND "The income of which shall be used for the continuous and better care of hospital archives, pictures and historical relics pertaining to both the General Hospital and the McLean Hospital."	$1,502.29	8,147.25
JOHN ASHTON FUND For diseased and wounded soldiers.		31,871.10
THE JOSEPH C. AUB FUND Income to be spent for Cancer Investigation.	935.51	22,450.66
BAKER MEMORIAL FUND For the Baker Memorial. Sundry Bequests.		104,108.78
BAKER MEMORIAL ASSISTANCE FUND Income to help pay the hospital expenses of such individual patients of small means as are believed to have incurred hospital expenses greater than they anticipated at the time of entering the Hospital,—but not limited to such cases. Disbursements to be made on recommendation of staff member in charge of patient approved by Committee designated in will. Income may also be used to purchase apparatus suitable for handling fractures and operations. Bequest of Miss Carrie M. Jameson $5,601.20 Sundry Gifts 320.00	1,053.46	7,921.20

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
LILLIAN DOBIE BALBONI MEMORIAL FUND Income for a Free Bed or for any other purpose the Trustees of the Hospital may think best. Sundry Gifts.	$11,444.87	$38,202.37
ARTHUR W. BLAKE FUND Income for the study and cure of nervous diseases.	409.47	25,000.00
GEORGE WASHINGTON WALES BREWSTER MEMORIAL FUND Income for any Hospital purpose. Bequest of Mrs. George W. W. Brewster $5,000.00 Sundry Gifts 1,289.02		6,289.02
ANNIE BOLTON MATTHEWS BRYANT FUND Income for the benefit of people with moderate means for the establishment of free beds if the management believes it advisable, otherwise for general use.		72,093.70
ARTHUR TRACY CABOT FUND Income for support of laboratories.		20,000.00
RICHARD C. CABOT FUND For educational purposes in connection with the work of the Social Service Department.	784.80	50,155.02
RICHARD C. CABOT MEDICAL SOCIAL LIBRARY FUND Income "to be used for the purchase of books for the Social Service Library under the direction of Chief of Social Service." Gift of American Association of Hospital Social Workers.	140.56	1,010.00
SAMUEL CABOT FUND FOR PATHOLOGICAL INVESTIGATION Income for salary of Surgical Pathologist. Gift of Samuel and Dr. Arthur T. Cabot.		10,000.00
CANCER RESEARCH ENDOWMENT FUND For Research in Cancer.	33,092.07	343,311.64
THE IDA M. CANNON MEMORIAL FUND Income to be spent for Social Service in medical care under the direction of the Advisory Committee to the Social Service Department.	604.08	17,634.55

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
MASSACHUSETTS GENERAL HOSPITAL CHAPEL FUND ..... Gifts of "Friends of the Hospital".	$ 3,904.35	$ 6,913.48
MASSACHUSETTS GENERAL HOSPITAL ENDOWMENT FUND FOR THE STUDY OF CHRONIC DISEASES ..... Fund raised by Dr. Walter Bauer, Chief of the Medical Service and James Jackson Professor of Clinical Medicine 1951-64, income to be used for research work on chronic diseases, in the Medical Department.		840,249.83
CLINICAL LABORATORY FUND ..... Income for Clinical Laboratory. Bequest of Mrs. Grace M. Kuhn.		10,000.00
CONNECTING BUILDING FUND ..... Income for Connecting Building.		10,000.00
CONVALESCENT HOSPITAL FUND ..... For the Convalescent Hospital		259,574.78
WILLIAM C. AND JESSIE B. COX SCHOLARSHIP FUND ..... Income for scholarships and other aid for student nurses in the M.G.H. School of Nursing.	2,238.92	82,962.18
LORETTA JOY CUMMINS FUND ..... For general purposes of the Hospital, but preferably for the Skin Department.	352.94	36,452.43
THE CUSHMAN FUND ..... Income for the Social Service of the Hospital. Gift of Mrs. Charles F. Cushman.	681.23	5,000.00
MIRIAM F. AND ADELINE F. CUTTER FUND "To be used for women in illness especially the aged who have been accustomed to gentle care."	19.19	10,000.00
CAROLINE ENGSTROM DAHL FUND ..... Income to be used for maintenance of the Research Building; principal expendable within the intent of the bequest at the discretion of the Trustees. Bequest of Mr. Richard Engstrom.		101,170.00
JOHN CALL DALTON AND EDWARD BARRY DALTON FUND ..... Income for investigation in the science of medicine.	8,380.50	35,500.00

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
CHESTER H. DAVIS FUND Income for "the care, maintenance and medical treatment of crippled and deformed white children between the ages of six months and ten years."	$ 1,080.93	$ 20,000.00
DR. WALTER J. DODD MEMORIAL FUND Income for X-Ray investigation.	1,988.51	32,147.91
THE BESSIE ROCHESTER EDWARDS MEMORIAL FUND Income for the care and treatment of men who have served or are serving in the armed forces of the United States of America. Gifts of Trustees of The Bessie Rochester Edwards Memorial Foundation ..... $55,914.20 Disabled Ex-Servicemen's Exchange, Inc. 10,250.16	1,029.11	66,164.36
EDWARDS MEMORIAL FUND Until such time as the Trustees of the Hospital shall direct otherwise, the income on $100,000 to be used in such manner as said Trustees may deem proper for medical or surgical research. Bequest of Miss Grace M. Edwards ..... 391,447.56 Sundry Bequests 100.00		406,547.56
JOHN W. ELLIOT FUND Income for investigation in the science of medicine, preferably in the Surgical Department. The income may be used for other purposes in case there is no further demand in this direction.	214.82	20,114.22
ISABELLA H. ELLISON FUND Income for the general purposes of the Baker Memorial.		89,753.16
SARAH POTTER EVARTS FUND For psychiatric social work. Gifts of Mrs. Prescott Evarts and Dr. Helen W. Evarts.	294.70	1,398.42
FRANCES FAY AND ARTHUR KELSEY FAY MEMORIAL FUND Income primarily for care and treatment of persons suffering from or threatened with chronic epilepsy in cases requiring special study. Gift and bequest of James H. Fay.	873.82	25,000.00

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
EDITH S. AND FRANCES B. FISHER MEMORIAL FUND ..... To be used both as to principal and any income to purchase therapeutic appliances for needy crippled or deformed patients as directed by the social service department.	$ 5,379.50	$ 80,000.00
THE NANCY M. FRASER MEMORIAL FUND Income for scholarships to some deserving students in the School of Nursing.		5,680.00
FREE BED FUNDS ..... Income for Free Beds. Sundry Gifts and Bequests.	9,424.65	4,451,130.96
GENERAL SURGERY FUND ..... Income to be used for general surgery purposes under the direction of the Chief of General Surgery. Principal expendable in need.	487.33	50,971.32
MRS. JOHN CHIPMAN GRAY FUND ..... For the purchase of books in foreign languages for the use of patients.	1,050.92	1,000.00
ALLAN W. HAMILTON FUND ..... For medical services in the Outpatient Department.		2,027.03
ABIGAIL R. HAZELTINE FUND ..... Income unrestricted until the establishment of a cancer or incurable ward, then to the maintenance of same; principal may be applied toward a building for this purpose. Bequest of Miss Harriet S. Hazeltine.		10,000.00
THE WILLIAM HILTON FUND ..... "To be invested as a separate fund, and called 'The William Hilton Fund,' the income thereof to be applied for the support of free beds or otherwise, as the trustees shall from time to time deem best, for the poor suffering from disease or injuries"		50,053.58
CHARLES W. HOLTZER FUND ..... Income for general research work.		41,666.67
INCOME UNRESTRICTED FUNDS ..... Income for any Hospital purpose. Sundry Gifts and Bequests.		4,550,152.29
JAMES MARSH JACKSON MEMORIAL FUND Income for occupational work or for general purposes. Gift through Trustees of the James Marsh Jackson Memorial Fund.		25,797.20

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
THE CHESTER MORSE JONES HOUSE STAFF EDUCATIONAL FUND ..... Income only to be spent to increase the educational opportunities for the House Staff through contact with eminent men in the field of medicine either at the Hospital or away.	$ 6,555.86	$ 41,059.70
DANIEL FISKE JONES MEMORIAL FUND .... Income to extend and improve the education of surgical residents and interns.	1,106.93	18,863.99
THE VARAZTED H. KAZANJIAN FUND For rehabilitation through plastic and reconstructive surgery.	91.58	5,000.00
CATHERINE PEIRCE KELLEY FUND ..... Income for support and maintenance of a Free Bed for Women . . . aiding those who are most in need of aid. Bequest of Miss Grace Fletcher Kelley.		44,000.00
THE JOSEPH P. KENNEDY, JR. LABORATORIES FUND ..... To bring to the Laboratories the best possible Research men with an interest in mental retardation.	–635.59	500,000.00
MARGERY AMORY KETCHUM MEMORIAL FUND ..... Income only to be spent on Cancer Research u/d of Dr. Joseph C. Aub so long as he is actively connected with the Hospital; thereafter for cancer research at the discretion of the Trustees. Sundry Gifts.	1,706.17	25,764.14
EMMA GILDERSLEEVE LANE FUND ..... For cancer research, "preferring but not requiring that this legacy be kept as capital and only its income used for research in cancer."	890.51	20,000.00
THE ISABEL FABYAN LOMBARD FUND .... For the comfort and/or entertainment of Nurses in the Hospital.	315.87	5,000.00
THE JOHN R. MACOMBER QUADRANGLE FUND ..... Income for the maintenance of the Macomber Quadrangle.	117.10	3,333.32
THE MALLINCKRODT FUND ..... Income only to be used for the support of the Mallinckrodt Ward (Ward 4) with limited discretion to the Trustees in case this support is no longer needed.		497,373.01

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
THE FRANCIS COGSWELL MANNING FUND Income for research work under the direction of Chief of the Medical Service. Bequest of Mrs. Annie F. Selfridge ..... $10,000.00 Sundry Gifts 190.00	$ 4,147.02	$ 10,190.00
THE CAPTAIN MARTELL FUND ..... "The interest to be used for the annual purchase of a book or books for the Warren Library, these books to be seafaring stories with the story of Captain Martell pasted on the inside cover of each one."	100.10	121.36
MASSACHUSETTS GENERAL HOSPITAL SCHOOL OF NURSING GRADUATE NURSES SCHOLARSHIP FUND ..... Income for Graduate Nurse Scholarships Gift of Miss Annabella McCrae	316.41	500.75
JAMES HOWARD MEANS FUND ..... To be used under the direction of the Chief of Medical Service primarily towards bringing to the Hospital on a pro tempore basis physicians or other prominent persons whose presence will aid and advance the work of the Medical Service.	2,994.63	30,150.00
JAMES C. MELVIN FUND ..... Subject to certain annuities, income for any purpose of the Corporation, with nonobligatory suggestion for increasing medical knowledge, assisting persons particularly the young who have had hospital treatment, bettering treatment in country districts and co-operating with the Trustees under the Will of James C. Melvin. Bequest of Mrs. Clara M. Melvin.		671,811.13
MEMORIAL FUND TO THE DOCTORS AND NURSES WHO DIED IN THE WAR OF 1917-18 ..... Income for the general purposes of the Hospital, but preferably for free care of patients. Gift of Base Hospital No. 6 Fund through the Ladies' Visiting Committee.		6,189.47
ALBERT G. MITCHELL FREE BED FUND .... Income for the treatment of cancer with nonobligatory suggestion that use of the bed be given to members of the Department of Music in the Boston Public Schools, or otherwise for the use of the teachers of said schools. Bequest of Albert G. Mitchell $4,055.53 Sundry Gift 25.00	76.48	4,080.53
THE MITTON FUND ..... Income to be used for General Surgery purposes under the direction of Dr. Russell.	–1,441.08	56,629.64

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
THE MIXTER FUND ". . . the income only to be expended under the direction of Dr. W. Jason Mixter, during his life, and thereafter by the Chief of the Neurosurgical Service." Sundry Gifts.	$ 4,813.85	$ 71,527.43
FORRIS JEWETT MOORE AND EMMA BAKER MOORE FUND Income for Hospital uses for the alleviation of human suffering.		76,143.32
FANNIE EDSON MORRISON FUND "Income . . . for the support of the Social Service Department."		711,320.97
FRANCIS A. NEWELL ENDOWMENT FUND Income to be used "for the most approved method of treating hip disease due to accident in indigent children."	10,767.13	50,000.00
NORTH END DIET KITCHEN RESTRICTED FUNDS "Income to provide diet for the sick poor." Sundry Gifts and Bequests.		11,366.78
NORTH END DIET KITCHEN UNRESTRICTED FUNDS "To provide diet for the sick poor." Sundry Gifts and Bequests.		34,716.65
FLORENCE NUTE FUND To be "used on behalf of patients with slender or no means with which to meet Hospital expenses." Bequest of Lewis W. Nute.		68,278.57
DR. ALICE IRENE OUTHOUSE MEMORIAL FUND Income to be used for the purchase of pediatric literature for the Treadwell Library. Sundry Gifts.	116.00	530.00
OUTPATIENT DEPARTMENT FUND Income for needy patients. Bequest of Miss Louie Long.	88.59	3,479.71
EMERETTE O. PATCH FUND For the use of the Baker Memorial.		8,240.84
PATHOLOGICAL LABORATORY AND RANDALL FUNDS Income for Pathological Laboratory. Sundry Gifts and Bequests.		83,875.41
JACOB C. R. PEABODY AND ELSA MASON LORD PEABODY MEMORIAL FUND Income for the Phillips House. Bequest of Mrs. Elsa Mason Lord Peabody	5,543.39	35,765.40

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
ELIZABETH ANNE PETERSON MEMORIAL FUND	$ 366.33	$ 20,000.00
Income to further the work of the Neurosurgical Service.		
PHILLIPS HOUSE NURSES LOAN FUND	2,480.63	2,190.00
Income for loans to Phillips House nurses. Sundry Gifts.		
MARY GOVE PITMAN FUND FOR UROLOGICAL RESEARCH	3,909.34	21,051.38
Income for investigation— *First*: Of the cause, treatment and prevention of recurrence of urinary stones, and *Second*: Of any other pathological or physiological problems encountered in urological surgery which are deemed worthy of investigation, the decision as to their importance to be made by a Committee appointed by the Trustees of the Hospital.		
JOHN REDMAN FUND		455,113.34
Income for any purpose except erection or repairs of buildings.		
RESEARCH AND TEACHING FUND		141,475.84
Income for research and teaching.		
EDWARD PEIRSON RICHARDSON LECTURESHIP IN MEDICAL SCIENCE	6,580.67	15,000.00
"The income to be used to provide honoraria for lectures by visiting scientists, preferably in subjects relating to surgery —" Gifts of Dr. Richardson's Sons in Memory of their Father.		
JOHN FYFFE RICHARDSON MEMORIAL FUND	5,271.74	28,218.38
Income only to be spent by the Trustees on recommendation of the Chief of the Huntington Memorial Laboratories or the senior cancer investigator preferably for leukemia research or related areas of cancer research. 5% of income to be added to principal each year until the fund reaches $400,000.		
MAURICE HOWE RICHARDSON FUND	1,420.56	40,400.00
Income for surgical research, as recommended by the Chiefs of the General Surgical Staff. Gifts of		
Dr. Daniel Fiske Jones $25,200.00		
Dr. Edward P. Richardson 5,000.00		
Mrs. Maurice Howe Richardson 5,000.00		
Sundry Gifts 5,200.00		
RICHARDSON TUBERCULOSIS FUND		276,141.63
"For the prevention or cure of tuberculosis." Bequest of Mrs. Mary Rich Richardson		

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
THE MARIAN MAHIN ROBB MEMORIAL FUND ..... Income for Cancer Research.		$ 5,242.50
ELSIE M. ROBBINS SOCIAL SERVICE FUND For social service purposes in the Arthritis Clinic.	$ 250.20	12,814.55
WILLIAM MILTON ROSE, M.D., MEMORIAL FUND ..... Income for the benefit of worthy needy persons.		44,766.46
MARY ELIZABETH SALTONSTALL FUND .... Income for the Social Service of the Hospital, "preference being given for the help and care of little children". Bequest of Philip L. Saltonstall.		5,000.00
MARTHA A. SARGENT FREE BED FUND Income for Free Beds in the Women's Department. Bequest of William A. Sargent.		1,042,816.18
SCHOOL OF NURSING SCHOLARSHIP FUND For scholarships at the School of Nursing.	687.12	19,751.15
THE CHARLES L. SCUDDER FUND ..... Income for the Fracture Service. Bequest of Miss Elizabeth M. Garritt.	10,508.99	30,000.00
GEORGE C. AND ANNE H. SHATTUCK FUND ..... Income for music at the General Hospital annually on Christmas Day and Easter Sunday. Surplus income may be used for music on other days, including radio. Gift of Dr. Frederick C. Shattuck.	1,114.39	2,000.00
THE TERRY SHUMAN MEMORIAL FUND Income for additions to the Library of the Neurology Department of books on research, periodicals, reports or publications, etc.	199.50	1,370.10
EMMA H. SLADE FUND ..... For any Hospital purpose, but preferably to provide particularly for those in the middle ranks of life who need such care.		10,195.20
SOCIAL SERVICE FUND ..... Income for Social Service.		111,015.15
THE CHARLES CHESLEY SPRINGER FUND "Income for the relief of soldiers, sailors or marines who have been in the military service of the United States and who are residents of Massachusetts, and for the relief of their families. If at any time there should not be any soldiers, sailors, marines or their families requiring such relief, the income may be applied to any of the purposes of the Hospital." Bequest of Miss Mary W. Springer.	1,488.07	345,020.58

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
STAFF MEMORIAL FUND Income to be expended by direction of the General Executive Committee. Sundry Gifts.	$ 1,496.71	$ 3,811.00
SURGICAL INSTRUMENT FUND Income for special surgical instruments. Gift of J. Arthur Beebe ..... $5,000.00 Sundry Gifts 1,475.00	769.21	6,475.00
GEORGE N. TALBOT FUND Income for Children's Medical Department as directed by Chief of Service. Bequest of George N. Talbot and Gifts of Dr. Fritz B. Talbot.	657.05	14,151.40
MRS. NATHANIEL THAYER FUND Income to be used "preferably for the Social Service Department."	556.41	10,000.00
ANNIE A. LONGFELLOW THORP MEMORIAL FUND Income for Warren Library. Sundry Gifts.	2,767.18	3,450.00
THYROID LABORATORY FUND Income only for the Thyroid Laboratory.	172.50	3,303.29
TRAINING SCHOOL FOR NURSES FUND Income for Training School for Nurses. Sundry Gifts and Bequests.		40,037.92
TREADWELL LIBRARY FUND Income for the Treadwell Library. Bequest of Dr. J. G. Treadwell $5,000.00 Sundry Gifts and Bequests 2,555.00	116.77	7,555.00
LAWRENCE TUCKER FUND So far as expedient for the treatment and alleviation of venereal diseases, and otherwise for the general purposes of the Hospital.		429,753.01
UROLOGICAL PERIODICALS FUND Income for purchase of urological periodicals for Staff Room of Urological Ward. Gift of Dr. Channing S. Swan.	508.40	1,000.00
THE BETH VINCENT FUND Income to be used for research under the direction of the Chief of Surgical Service.		100,438.36
FRANCES KNOWLES WARREN FUND Income for the General Purposes of the Hospital; principal available in emergency. Bequest of Mrs. George E. Warren.		30,000.00
WARREN LIBRARY FUND Income for books for patients. Sundry Gifts and Bequest.	2,447.76	5,067.19
DEPENDENCE S. AND WALTER B. WATERMAN FUND "Income to be applied to the care of those who can pay something but not all." Bequest of Walter Bowen Waterman.		134,573.62

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
GEORGE ROBERT WHITE FUND		$4,119,730.30
To be held as a permanent fund to be known as the George Robert White Fund, the income only to be used first for the maintenance and equipment of the George Robert White Memorial building and second for the general purposes of the Hospital. Bequest of Mrs. Harriet J. Bradbury		
GEORGE ROBERT WHITE FUND		100,000.00
"Income for development or maintenance of a department for treatment of diseases of the skin." Bequest of George Robert White		
DR. JAMES C. WHITE NEUROSURGICAL FUND		969.36
Income to be added to principal until the fund reaches $5,000; thereafter 50% shall be added until the fund reaches $10,000; and thereafter 25% to $50,000. Income not so added to principal to be used in the interest and promotion of neurosurgery under the direction of Dr. James C. White.		
GEORGE WIGGLESWORTH FUND		58,171.88
Ten per cent of gross income in each year to be added to principal; net income remaining for the general purposes of the Corporation.		
WOODEN LEG FUND	$ 872.88	7,600.00
Income for wooden legs and other devices for diseased and injured legs.		
Bequest of Nathaniel I. Bowditch $5,000.00		
Sundry Gifts 2,600.00		
TEMPORARY FUNDS		
Special Purposes	5,437,322.33	
Endowment Income Undistributed to Funds	292,273.19	
TOTAL GENERAL HOSPITAL FUNDS	$5,899,277.41	$23,091,595.47

BUILDING FUNDS

CLINICS BUILDING FUNDS	$ 154,920.73
150TH ANNIVERSARY FUNDS	1,052,390.44
SURGICAL BUILDING FUNDS	423,711.64
EMERGENCY WARD EXTENSION FUND ..	248,730.64
SUNDRY FUNDS	1,311,154.51
TOTAL BUILDING FUNDS	$3,190,907.96

McLEAN HOSPITAL FUNDS

	Income	Principal
EDWARD STANLEY ABBOT MEMORIAL FUND ..... For scientific investigation at McLean Hospital.	$2,181.79	$ 10,000.00
AMUSEMENT, ENTERTAINMENT OR OCCUPATION FUND ..... Income for amusement, entertainment or occupation of patients. Sundry Gifts and Bequests.		21,135.00
WENTWORTH HIGGINSON BARNEY FUND Income to be spent at the discretion of the Director. Gift of Dr. J. Dellinger Barney. $1,500.00 Income added 258.65		3,790.69
EMILY H. BOURNE FUND Income for the training of nurses in mental nursing and to aid in the prevention and cure of deafness.		10,000.00
CLINICAL RESEARCH FUND ..... Income for research. Sundry Gifts and Bequests.		86,081.31
THE ISOBEL COLLINS SPECIAL FUND FOR THE LIBRARY OF McLEAN HOSPITAL .. Income for the purchase of books, music, and other things appropriate to the building up of a musical alcove for the library. Gift of Frank W. Kimball.		1,075.90
COWLES-TUTTLE MEMORIAL ART FUND .. Income for Art Room.	2,843.71	5,000.00
SAMUEL ELIOT MEMORIAL CHAPEL FUND For maintenance and operation of Chapel.		10,904.84
FREE BED FUNDS ..... Income for Free Beds. Sundry Gifts and Bequests.		356,187.45
GENERAL FUND ..... For any Hospital purpose.		–908,878.42
INCOME UNRESTRICTED FUNDS ..... Income for any Hospital purpose. Sundry Gifts and Bequests.		171,205.24
ANNABELLA McCRAE SCHOLARSHIP FUND Income for Scholarships for the School of Nursing	2,201.86	4,154.21
WETHERILL FUND ..... The income only to be used for the Wetherill Awards to graduates of the McLean Hospital School of Nursing. Gift of Dr. E. Stanley Abbott.		2,000.00

McLEAN HOSPITAL FUNDS (Continued)

	Income	Principal
MARY JESSIE WILLIS MEMORIAL FUND To establish a free bed in memory of Mary Jessie Willis, to furnish luxuries, comforts and amusements to such insane women patients as may be unable to provide the same for themselves, and generally for the uses of the Hospital. Bequest of Mrs. Frances H. Willis.		$ 24,283.63
BUILDING FUND		1,092,782.91
TEMPORARY FUNDS		
Special Purposes	$320,978.01	
Endowment Income Undistributed to Funds	9,808.71	
TOTAL McLEAN HOSPITAL FUNDS	$338,014.08	$889,722.76

FIDUCIARY FUNDS

BULLARD ANNUITY FUND	$625.00	$100,000.00
BETTY DUMAINE FUND To be held until accumulated income plus additions reach $100,000, then one-half of income to be added to principal and balance used for such Hospital purposes as Trustees deem best.		3,963.37
EYEGLASS FUND Income payable to a life interest. Bequest of Frances A. Burnham.		2,282.00
THE AGNES B. FITZGERALD FUND Temporarily payable to a life interest.		1,983.35
FOSTER FAMILY FUND "Income to be used to pay the hospital bills of patients nominated by the donor or his wife. After their decease the power of nomination shall descend in succession to their oldest child living, then grandchild. Thereafter, or in case the line of descent shall cease, the income shall be for the unrestricted uses of the Hospital." Gift of C. H. W. Foster.	8,844.10	15,000.00
MABEL HOVEY HARRIS MEMORIAL FUND "In Memory of Mrs. Henry W. Harris" Income to be used at the discretion of the Ladies' Visiting Committee for the benefit of the Hospital and its patients. Gift of Mr. and Mrs. Edwin S. Webster.		5,375.00

FIDUCIARY FUNDS (Continued)

	Income	Principal
SARAH PROCTOR JOSLIN FUND ..... Income to be expended by the Ladies' Visiting Committee for books and other articles.		$ 1,000.00
MARION LEE LAWRENCE MEMORIAL FUND Income to be administered by the Ladies' Visiting Committee, or by any subcommittee duly authorized by them, for the benefit of the Hospital and its patients. "Given by Her Family and Friends."		10,943.00
FANNIE NEWELL SIMES FUND ..... Income payable to a life interest. Gift of Miss Olive Simes.		20,000.00
MASSACHUSETTS GENERAL HOSPITAL SCHOOL OF NURSING ENDOWMENT FUND ..... Income to be used as directed by vote of the Committee created under the Deed of Gift.		336,429.35
ANNIE NORTON WARD FUND ..... For charitable purposes connected with the Hospital pursuant to the vote of the Ladies' Visiting Committee.		1,000.00
WARREN PRIZE FUND ..... Income for a triennial prize. Bequest of Dr. J. Mason Warren.	$ 2,354.38	11,889.84
KATHARYN HOYT WATSON FUND ..... For use of the Ladies' Visiting Committee.		1,000.00
Suspense and Special Funds		3,302.23
TOTAL FIDUCIARY FUNDS	$11,823.48	$514,168.14

SUMMARY

Principal Funds	$28,284,871.03
Temporary Funds	6,249,114.97
Funds Invested in Plant	23,863,506.78
Director's Accounts	6,124,439.82
	$64,521,932.60
Gain	230,448.79
Funds	$64,752,381.39

Examination of Accounts

January 20, 1964

To the Trustees
The Massachusetts General Hospital
45 Milk Street
Boston, Massachusetts

Sirs:

We have examined the balance sheet of The Massachusetts General Hospital as at September 30, 1963 and the related income statements of the General Hospital and McLean Hospital for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

Under the terms of pension plans adopted by the hospital, the hospital's portion of benefits payable to employees compensated from general operating funds of the hospital will be charged against operations as such benefits are paid. No provision has been made in the accompanying financial statements for the amount of the hospital's liability at September 30, 1963, for service benefits accruing to employees paid from general operating funds.

Subject to the explanation noted above, in our opinion, the accompanying balance sheet and related income statements, with their supporting exhibits, present fairly the financial position of The Massachusetts General Hospital at September 30, 1963 and the results of its operations for the year ended at that date, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

We have made a test check of the charges to income funds for special purposes for the year ended September 30, 1963 (including income arising from principal funds), in respect of the General Hospital and McLean Hospital funds. Based upon such examination and our review of internal control maintained in relation to funds, it is our opinion that charges made against the above-mentioned funds were properly chargeable thereto.

Patterson, Teele & Dennis

GIFTS AND BEQUESTS 1962-1963

GENERAL FUND

FOR ANY HOSPITAL PURPOSE

Bequests	$ 139,821.52	
Gifts	14,681.41	$ 154,502.93

GENERAL HOSPITAL FUNDS

Fund No.			
1020	ANESTHESIA FUND		
	Gifts		$ 15,100.00
1240	CANCER RESEARCH ENDOWMENT FUND		
	In Memory of J. Lothrop Motley		145.00
1245	IDA M. CANNON MEMORIAL FUND		
	Gifts		7,166.13
1290	MGH ENDOWMENT FUND FOR STUDY OF CHRONIC DISEASES		
	Gifts		10,500.00
1332	THE WILLIAM C. AND JESSIE B. COX SCHOLARSHIP FUND		
	Gift		12,849.77
1335	THE LORETTA JOY CUMMINS FUND		
	Bequest of Loretta Joy Cummins		1,309.05
1410	DR. WALTER JAMES DODD MEMORIAL FUND		
	Gift		100.00
1710	INCOME UNRESTRICTED FUNDS		
	Samuel Appleton Fund		
	Bequest of Miss Maud E. Appleton		659.22
1770	DANIEL FISKE JONES MEMORIAL FUND		
	Gifts		150.00
1785	THE VARAZTED H. KAZANJIAN FUND		
	Gift		5,000.00
1800	MARGERY AMORY KETCHUM MEMORIAL FUND		
	Gifts		1,010.00
1818	JOHN R. MACOMBER QUADRANGLE FUND		
	Gift		1,666.66
1940	THE MITTON FUND		
	Gifts		1,000.00
1950	THE MIXTER FUND		
	In Memory of William S. Matthie	$ 5.00	
	Gifts	1,130.31	1,135.31
2185	ELIZABETH ANNE PETERSON MEMORIAL FUND		
	Gift		20,000.00
2347	THE MARIAN MAHIN ROBB MEMORIAL FUND		
	Gifts		5,242.50

2350	ELSIE M. ROBBINS SOCIAL SERVICE FUND			
	Gifts			$ 115.00
2401	MGH, SCHOOL OF NURSING SCHOLARSHIP FUND			
	In Memory of Dorthy Dayton Morgan	$ 5,000.00		
	In Memory of Patricia Quilty	5.00		
	In Memory of Miss Mary Seymour	45.50		
	Gifts	277.75		5,328.25
2440	TERRY SHUMAN MEMORIAL FUND			
	Gift			50.00
2600	THE THYROID LABORATORY FUND			
	In Memory of Mrs. Myrtia Whithed	$ 2.00		
	Gifts	550.00		552.00
2800	THE BETH VINCENT FUND			
	Bequest of Dr. Beth Vincent			100,438.36
2815	UNRESTRICTED FREE BED FUND			
	Bequest of Emma Willard Gleason	$ 6,960.53		
	Gifts	100.00		7,060.53
2910	CONVALESCENT HOSPITAL FUND			
	Gift of Trustees u/w Helen O. Storrow			2,100.00
			$	198,677.78

BUILDING FUNDS

150TH ANNIVERSARY FUNDS			
Gifts		$	405,981.13
EMERGENCY WARD EXTENSION FUND			
Gifts			272,015.26
SURGICAL BUILDING FUNDS			
Gifts	$ 232,634.25		
Public Health Service Grant	18,281.00		250,915.25
CARDIO-PULMONARY LABORATORY			
Gift			10,000.00
COFFEE SHOP CONSTRUCTION FUND			
Gifts			6,575.31
ORTHOPEDIC RESEARCH BUILDING FUND			
Gifts			18,625.00
		$	964,111.95

McLEAN HOSPITAL FUNDS

GENERAL FUND			
Bequest of Nancy Dean Adams	$ 5,000.00		
Bequest of Arthur J. Keefe	9.80		
Gifts	11,398.75	$	16,408.55
McLEAN BUILDING FUNDS			
Gifts	$ 22,250.00		
Public Health Service Grant	351,444.67	$	376,694.67
		$	393,103.22
TOTAL PRINCIPAL FUNDS		$	1,710,395.88

Income Funds

General Hospital Funds

Treasurer's Funds

ANNUAL FREE BED FUND			
Mrs. William H. Ames	$ 1,000.00		
Mrs. Taylor Black	500.00		
Mr. and Mrs. Hugh Farrington	25.00		
Dr. Walter S. Kerr, Jr.	289.63		
Mr. and Mrs. Henry P. King	100.00		
Mr. and Mrs. Ralph Lowell	200.00		
In Memory of John Lowell 1816-1820			
John Amory Lowell 1843-1851			
John Lowell 1856-1870			
John Lowell 1910-1922			
Trustees of The Massachusetts General Hospital			
Malden Trust Company	500.00		
The 1916 Sewing Circle	100.00		
United Community Services	2,600.00	$	5,314.63
CURRENT EXPENSE FUND			
In Memory of Lella W. Lang			
Gift	$ 25.00		
Bequests	12,512.87		
Gifts	10,510.00		
United Community Services	181,355.00		204,402.87
THE ARTHUR W. ALLEN MEMORIAL FUND			
Gift	$ 975.00		
FRANCIS BLAKE FUND			
Gift	75,000.00		
EDWIN F. CAVE TRAVELING FELLOWSHIP FUND			
Gifts	8,300.00		
FRANCES HOAR FOSTER MEMORIAL FUND			
Gifts	165.00		
CHESTER M. JONES LECTURESHIP FUND			
Gift	25.00		
KAYPE FUND			
Gifts	3,725.25		
LINTON-DARLING CARDIOVASCULAR FUND			
Gifts	5,000.00		
MISCELLANEOUS FUNDS			
For Miscellaneous Purposes	129,900.62		
BEQUEST OF ALBERT J. SARGENT	1,250.00		
RICHARD H. SWEET MEMORIAL FUND			
Gifts	860.00		225,200.87
		$	434,918.37

Income Funds

General Hospital Funds

Funds for Special Purposes

Bequests		$ 10,065.17
Gifts		343,544.80
Grants—Government	$4,531,254.93	
Foundations	773,552.51	5,304,807.44
		$ 5,658,417.41

McLEAN HOSPITAL FUNDS

CURRENT EXPENSE		
Gifts		$ 236.03
FUNDS FOR SPECIAL PURPOSES		
Gifts		9,168.63
Grants—Government	$ 462,789.76	
Foundations	27,981.75	490,771.51
		$ 500,176.17
TOTAL INCOME FUNDS		$ 6,593,511.95
TOTAL PRINCIPAL FUNDS	$1,710,395.88	
TOTAL INCOME FUNDS	6,593,511.95	$ 8,303,907.83

Henry R. Guild
Treasurer

ONE HUNDRED AND FORTY-SIXTH

ANNUAL REPORT

OF THE

McLEAN HOSPITAL

A DIVISION OF THE

MASSACHUSETTS GENERAL HOSPITAL

1963

BELMONT

MASSACHUSETTS

Officers of McLean Hospital 1964

Honorary President
Phillips Ketchum

President
Francis C. Gray

Vice-President and Treasurer
Henry R. Guild

Secretary and Assistant Treasurer
George S. Weld

Trustees

1947	John E. Lawrence, Chairman, 177 Milk Street
1935	Francis C. Gray, 10 Post Office Square
1939	Henry R. Guild, 294 Washington Street
1940	Ralph Lowell, 100 Franklin Street
1941	*Rt. Rev. Robert P. Barry, 71 Warner Street, West Somerville
1943	Lloyd D. Brace, 67 Milk Street
1947	*Francis O. Schmitt, Ph.D., Department of Biology, Massachusetts Institute of Technology, Cambridge
1955	Philip H. Theopold, 294 Washington Street
1958	*Sidney R. Rabb, 393 D Street, South Boston
1962	Francis H. Burr, 50 Federal Street
1963	*H. Brooks Beck, Jr., 53 State Street
1963	Elliot L. Richardson, 73 Tremont Street

Associate Trustees

1962	Francis W. Hatch, 462 Boylston Street
1962	Edwin W. Hiam, 75 Federal Street
1963	Phillips Ketchum, 294 Washington Street
1963	George Putnam, 60 Congress Street

Other Members of the Corporation

Mrs. Frank G. Allen
Philip K. Allen
John S. Ames, Jr.
Robert Amory, Jr.
O. Kelley Anderson
Mrs. David B. Arnold
G. Storer Baldwin
Mrs. James T. Baldwin
Harry J. Blake
Gerald W. Blakely, Jr.
Mrs. Henry M. Bliss
Mrs. Lloyd D. Brace
J. Howard Bushway
Mrs. Charles C. Cabot
Thomas D. Cabot
John P. Chase
Theodore Chase
Frederic C. Church
Edward D. Churchill, M.D.
William H. Claflin
Charles E. Cotting
Mrs. Richard E. Danielson

*Appointed by the Governor of the Commonwealth

Miss Betty Dumaine
Robert R. Duncan
Charles J. Dunn
William Ehrlich
Nathaniel W. Faxon, M.D.
Mrs. Gardiner H. Fiske
Michael A. Fredo
Alvan T. Fuller, Jr.
Mrs. Francis C. Gray
Edward B. Hanify
Roy J. Heffernan, M.D.
Ernest Henderson
Harold D. Hodgkinson
Mrs. Robert Homans
Gilbert H. Hood, Jr.
Harvey P. Hood
Arnold W. Hunnewell
Donald J. Hurley
William T. Kemble
Mrs. Wheaton Kittredge, Jr.
Miss Aimee Lamb
Henry A. Laughlin
Alfred L. Loomis
Joseph W. Lund
Arthur T. Lyman
Francis P. McCarthy, M.D.
Leland F. McKittrick, M.D.
James Howard Means, M.D.
James Jackson Minot
George F. Mumford
George Olmsted, Jr.
James H. Orr
Miss Amelia Peabody
Mrs. Sumner Pingree
William M. Rand
Miss Anna P. Revere
Dwight P. Robinson, Jr.
Horatio Rogers, M.D.
Joseph Santosuosso, M.D.
Rt. Rev. Henry K. Sherrill
Alan Steinert
Mrs. Abbot Stevens
Raymond S. Stevens
John O. Stubbs
Thomas C. Thacher
Mrs. Augustus Thorndike
Richard K. Thorndike
Samuel J. Tomasello
John B. Vernaglia, M.D.
F. Frank Vorenberg
Mrs. Edwin S. Webster
Edward A. Weeks, Jr.
Paul D. White, M.D.

McLEAN HOSPITAL COMMITTEE

Ralph Lowell, *Chairman*

Rt. Rev. Robert P. Barry — Sidney R. Rabb

George Putnam

ADMINISTRATION

Director
Francis de Marneffe, M.D.

Administrator
Henry J. Langevin, M.S. Psych. Nurs., M.S.H.A., (M) A.C.H.A.

Assistant Administrator
Henry H. Harvey, B.S. Nurs., M.P.A.

Administrative Assistant
Willa F. Pasho, B.S.

DIRECTORS OF DEPARTMENTS

Accounting
Thomas J. Burley, Comptroller

Activity Therapies
Rose Farkas, M.S.S.

Dietetics and Food Service
Charlotte L. Donaldson, B.A., B.S.

Grounds and Transportation
Howard R. Gallant

Housekeeping and Laundry
Harold F. Smith

Patient Education
Ellen M. Riordan, B.S., M.Ed.

Personnel
John E. Lowe, B.B.A.

Pharmacy
George R. Zager, Reg. Ph., M.S.

Plant and Operations
John B. Larson, B.S.
John J. Blanchard, Assistant

Psychiatric Social Work
Golda Edinburg, M.S.S.S.

Psychology
Irene Pierce Stiver, Ph.D.

Purchasing
Alexander Armour

Social Science
Norman W. Bell, Ph.D.

Director of School of Nursing and Nursing Service
Margaret C. Tibbetts, R.N., B.S. in Nurs. Ed.

Assistant Directors of Nursing Service
George B. Durham, R.N., A.A., ThM., B.S.
Daniel H. Lennox, R.N., B.S. in Nursing
Americo A. Zerneri, R.N., B.S.

Assistant Director of School of Nursing
Mildred C. Makin, R.N., B.S. in Nurs. Ed., Ed.M.

McLEAN HOSPITAL STAFF

Consulting Staff

Stanley Cobb, M.D., *Psychiatrist*
Harry C. Solomon, M.D., *Psychiatrist*
Paul D. White, M.D., *Cardiologist*

MEDICAL STAFF

Director

Francis de Marneffe, M.D.

Psychiatrist in Chief

Alfred H. Stanton, M.D.

Director of Clinical Psychiatry

Samuel Silverman, M.D.

Associate Director of Clinical Psychiatry

Paul M. Howard, M.D.

Psychiatrists

Erich Lindemann, M.D.
Elizabeth R. Zetzel, M.D.

Attending Psychiatrists

Morris H. Adler, M.D.
Martin A. Berezin, M.D.
William F. Murphy, M.D.
Henry Wermer, M.D.

Associate Psychiatrists

Edward M. Daniels, M.D.
Stanley H. Eldred, M.D.
James A. Haycox, M.D.
Merton J. Kahne, M.D.
Maria Lorenz, M.D.

Associate Attending Psychiatrists

Arthur J. Cain, M.D.
P. Stefan Kraus, M.D.
Sidney Levin, M.D.
Arnold H. Modell, M.D.
Suzanne T. van Amerongen, M.D.
Norman E. Zinberg, M.D.

Assistant Psychiatrists

Lloyd M. Caplan, M.D.
John G. Clark, Jr., M.D.
Roy M. Coleman, M.D.
Paul R. Dinsmore, M.D.
Dorr F. Hallenbeck, Jr., M.D.
Howard T. Hermann, M.D.
Peter B. Jenney, M.D.
Egbert H. Mueller, M.D.
Jalna Ann Perry, M.D.
Phelps M. Robinson, M.D.
Alan A. Stone, M.D.
Maurice Vanderpol, M.D.
Mark M. Walter, Jr., M.D.
Stephen L. Washburn, M.D.

Assistant Attending Psychiatrists

Barbara L. Aeschliman, M.D.
Ruth B. Beuscher, M.D.
William A. Binstock, M.D.
George Chalpin, M.D.
Mignon C. Chasen, M.D.
Jacob Christ, M.D.
Herbert S. Cline, M.D.
Hadassah S. Daniels, M.D.
William Kornfeld, M.D.
Charles E. Magraw, M.D.
Theodore Sack, M.D.
Harold D. Stalvey, M.D.
William D. Temby, M.D.
Olga S. Wermer, M.D.
Frederick E. Whiskin, M.D.
Edward L. Zarsky, M.D.

Clinical Assistants in Psychiatry

A. Scott Anderson, Jr., M.D.
Joseph H. Brenner, M.D.
Edwin M. Davidson, M.D.
Gerhart A. Duda, M.D.
Donald J. Fern, M.D.
Bruce W. Fischberg, M.D.
Henry U. Grunebaum, M.D.
Eda M. Kahana, M.D.
Melvin M. Kayce, M.D.
Barbara G. Mueller, M.D.
Harry S. Olin, M.D.
Harold W. Williams, Jr., M.D.
Jacob C. Wolterbeek, M.D.

Courtesy Staff

Henry G. Altman, M.D.
Kathryn S. Beck, M.D.
Max Geller, M.D.
Shepard C. Ginandes, M.D.
Herbert I. Harris, M.D.
Richard H. Hartman, M.D.
Elinor Meiss, M.D.
David J. Myerson, M.D.
Edmund C. Payne, Jr, M.D.
Herbert I. Posin, M.D.
Ruick S. Rolland, M.D.
Lionel A. Schwartz, M.D.
Miles F. Shore, M.D.
William E. Stone, M.D.
Paul L. Watson, M.D.
Ruth S. Weiss, M.D.
Richard V. Wilson, M.D.

Clinical Fellows in Psychiatry

Jane M. Berman, M.D.
Randolph Catlin, Jr., M.D.
William H. Goodson, Jr., M.D.
Albert E. Herman, M.D.
John B. Livingstone, M.D.
Michael T. McGuire, M.D.
Judith G. Ronat, M.D.
Christopher V. Rowland, Jr., M.D.
John S. Strauss, M.D.

Resident Psychiatrists

As of January 1, 1964, with subsequent appointments

Jacqueline M. Amati, M.D.
John H. Backman, M.D.
Samuel H. Barondes, M.D.
Douglas Buchanan, M.D.
Richard D. Budson, M.D.
Robert M. Chalfin, M.D.
Theodore Dreier, M.D.
Matthew P. Dumont, M.D.
Robert W. Farkas, M.D.
Sidney Green, M.D.
Frank Haendel, M.D.
Eddie H. Harris, M.D.
Gary Jacobson, M.D.
Alexandra M. Kail, M.D.
Miroslav M. Kovacevich, M.D.
Bernard Levey, M.D.
Kenneth B. McBride, M.D.
Martin A. Miller, M.D.
Martin B. Richmond, M.D.
Dora L. Scaliter, M.D.
Richard Sens, M.D.
Harvey M. Shein, M.D.
John B. Spillane, M.D.
Lawrence A. Stone, M.D.
Larry H. Strasburger, M.D.
Alfredo Suescum, M.D.
Michael J. Walker, M.D.

Director of Internal Medicine and of Research in Clinical Physiology

Mark D. Altschule, M.D.

Clinical Assistants in Medicine

Hershel Jick, M.D.
Lloyd G. Potter, M.D.

Assistant Neurologist

Pierre M. Dreyfus, M.D.

Assistant Dental Surgeon
William H. Tingey, Jr., D.M.D.

Roentgenologist
Majic S. Potsaid, M.D.

RESEARCH LABORATORY

Director of Scientific Research
Jordi Folch-Pi, M.D.

Advisory Committee to Director of Scientific Research
Raymond D. Adams, *Chairman*
Rafael Lorente de No, M.D.
Fritz A. Lipmann, M.D.
Donald D. Van Slyke, Ph.D.
Alfred H. Stanton, M.D., *Ex-officio*

Neuropathologist
Alfred Pope, M.D.

Biophysicist
J. David Robertson, M.D., Ph.D.

Associate Neuropathologist
Helen H. Hess, M.D.

Associate Biochemists
George P. Hauser, Ph.D.
Francis N. LeBaron, Ph.D.
Pierre J. Stoffyn, Ph.D.

Assistant Biochemists
Lewis C. Mokrasch, Ph.D.
Anne Marie Stoffyn, Ph.D.

Research Fellows in Neuropathology
Luigi A. Amaducci, M.D.
Ruth M. Landolt, M.D.
Richard N. Lolley, Ph.D.
Charles N. Still, M.D.

Research Fellows in Biochemistry
Howard S. Maker, M.D.
Michael J. Malone, M.D.
Yasuo Takahashi, M.D.

Research Fellows in Biophysics
Albert Bischoff, M.D.
Carlos F. Doggenweiler, Ph.D.
Raul Hinojosa, M.D.

DEPARTMENT OF SOCIAL SCIENCE

Assistant Sociologist and Chief
Norman W. Bell, Ph.D.

Consultant
Robert N. Rapoport, Ph.D.

Associate Sociologist
Rose L. Coser, Ph.D.

Research Associate in Social Anthropology
Katherine Spencer, Ph.D.

Assistant Social Scientists
Richard H. Longabaugh, Ed.D.
Murray Melbin, Ph.D.
Ronald L. Nuttall, Ph.D.
Leonard F. Solomon. Ph.D.

DEPARTMENT OF PSYCHOLOGY

Chief Psychologist
Irene Pierce Stiver, Ph.D.

Associate Psychologists
Robert D. Schnitzer, Ph.D.
Ralph G. Semon, Ph.D.
Lewis J. Sherman, Ph.D.

Assistant Psychologist
Michael Wogan, Ph.D.

Fellow
Scott A. Reinhardt, M.A.

DEPARTMENT OF PATIENT EDUCATION

Research Associate in Education
William C. Kvaraceus, Ed.D.

Consultant in Education
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Principal, Arlington School
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Golda M. Edinburg, M.S.S.S.

Supervisors
Jo Ann Glotfelty, M.S.S.S.
(Social Group Work)
Hope N. MacDonald, S.M.
Constance A. McGrath, S.M.
Martha M. Norton, M.S.W.

Research Social Worker
Mollie Grob, S.M.

Social Group Worker
Ann D. Gross, M.S.W.
(Director of Volunteers)

Psychiatric Social Workers
Harriet Baxter, M.S.S.
Irene M. Daitch, M.S.S.S.
Shirley Goldstein, M.S.S.
(Out-Patient Clinic)
Barbara L. Schwartz, M.S.W.
Frederick Seifer, M.S.W.
Nancy Simes, M.S.S.S.
Anne Wallens, M.S.

DEPARTMENT OF ACTIVITY THERAPIES

Director
Rose Farkas, M.S.S.

Supervisors
Elizabeth L. Holcombe, A.B., O.T.R.
Winifred M. Richardson, B.S.

Art Therapy and Education
Helga Hartsell

Manual Arts Instructor
Blake Miller

Music Therapy
Rachel A. Mason, B.S. Music Therapy, M.T.R.

Occupational Therapy
Meriel Bicknell, M.A.O.T.

Patients' Library
Claire R. Coffey, B.A.

Recreational Therapy
Joel Davidson
Mary E. Mulcahey
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Daniel H. Lennox, R.N., B.S.
Americo A. Zerneri, R.N., B.S.

Assistant Director of School of Nursing
Mildred C. Makin, R.N., B.S. in Nurs. Ed., Ed.M.

Instructors in Psychiatric Nursing
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Mary Anne Noble, R.N., B.S., M.S.N.
Elizabeth A. Selby, R.N., M.S.
Janet H. Smith, R.N., B.S.

Assistant Instructors in Psychiatric Nursing
Carolyn V. Billings, R.N.
Herbert W. Mallinson, R.N.

Instructor in Nursing
John J. Grady, Jr., R.N., B.S.

Assistant Instructor in Nursing
Phyllis M. Warden, R.N., B.S. in Nurs. Ed.

Instructor in Sciences
Mary Isabel Newton, B.S., M.A.

Assistant Instructor in Sciences
Evelyn J. Davidson, R.N.

Coordinator in Medical and Surgical Nursing
Helen B. Langton, R.N., M.Ed., M.S.N.

Instructor in Medical and Surgical Nursing
Flora S. McLaughlin, R.N., B.S. in Ed.

Head Nurse, Health and Operating Room
Barbara N. Dinan, R.N.

Nursing Service Supervisors
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Vera K. Dunkley, R.N.
Rose Marie Hobson, R.N., B.S.
Audrey S. Hurley, R.N.
Virginia B. Ladd, R.N.
John P. Pitcherale, R.N., B.S. in Nurs. Ed., M.S.
Lloyd L. Stanley, R.N., M.A.

Psychiatric Nursing Instructor
(Nursing Service)
LaVonne E. Davidson, R.N., B.S. in Nurs. Ed., M.S.

CLINICAL NURSING CONSULTANT
Ida J. Pelletier, R.N., B.S. in Pub. Health, M.A.

UNIT HEADS

Chapel Organist
Homer P. Whitford, D. Music

Physical Therapy
Thomas A. Crapo, R.N., R.P.T.

Libraries
Hector Bossange, M.A.

X-Ray
Herbert A. Davidson

Seamstress
Cretie Harris

Report of the Director

To the Trustees of the Massachusetts General Hospital:

The Report for the Fiscal Year ended September 29, 1963 is respectfully submitted.

THE past year was marked by a continuation of the reorganization of the administration which was mentioned last year. The appointment by the Trustees of Dr. Samuel Silverman as Director of Clinical Psychiatry concluded the second phase of the reorganization of the hospital. Dr. Silverman is dedicated to patient care and he brings to this new position extensive clinical and teaching experience, which makes him especially qualified to assume responsibility for the psychiatric service and the education of the psychiatric residents.

Two other appointments, one in Nursing and one in the Activity Therapies Department, also reflected our continuing interest in improving the care of the patients. In the light of the changing medical concepts and techniques in psychiatry, the Nursing Department is in the process of re-evaluating the role of the nurse. To assist in this vital task Mrs. Ida Orlando Pelletier was appointed Clinical Nursing Consultant, and she brings to this new position an unusually clear understanding of the role of the psychiatric nurse as well as an ability to teach it to others.

As early as 1822 Dr. Rufus Wyman, in his first annual report, mentioned the usefulness of activity as a therapeutic tool. Although this usefulness is now well established in psychiatric hospitals, more emphasis in recent years has been placed on the crucial importance of the interaction between the patient and the activity therapist. When the leadership of the Activity Therapies Department became vacant last year, the opportunity presented itself to implement these changing concepts. Miss Rose Farkas was appointed Director of Activity Therapies and to this task she brought an unusual combination of experience in social group work and interest in activity as a therapy.

The opening of the Rehabilitation Center in July was a major event. The Center embodies concepts of patient care developed over many years and in addition provides special opportunities for teaching and

research. The Center already has had a noticeable effect on the hospital atmosphere, as well as on the neighboring community. Its significance should be seen not only in terms of the advantages of re-arranging various hospital functions under one roof, but also in terms of conveying to the community the new spirit which animates the hospital and re-emphasizes the continuing commitment of the Trustees, the Administration and the Staff to the further development of the hospital.

Another major event was the approval by the Trustees of the development of an outpatient clinic to provide diagnostic consultation and therapeutic services to individuals in the community who would be charged according to their ability to pay. When it opens next year it will be a significant addition to the treatment and teaching programs. In addition to providing services to patients, it will expand the range of opportunities for professional training for the staff and psychiatric residents. This practical expression of the hospital's interest in and commitment to the welfare of the community may encourage additional public support, and it is gratifying in this regard that the Auxiliary has already signified its interest in contributing to the support of the Outpatient Clinic.

During the year the number of patients treated in the hospital has continued to increase, especially the adolescent group. The hospital is becoming better known as an adolescent treatment center and referrals in this age group are increasing. The school on the hospital grounds continues to play a vital function in the education and treatment of those who have not completed high school, and we are also focusing on the needs of patients who will be going to college.

Under the joint sponsorship of the Harvard University Health Services and the hospital, an all-day conference was held with representatives from approximately twenty New England colleges to discuss the therapeutic and educational needs of college students who need to be admitted to a mental hospital. As a result of these discussions it is hoped that programs suited to the educational and therapeutic needs of the group will be established on a regional basis.

The number of day patients continues to increase. With the move of the Day Care Center to the new Rehabilitation Center, it is expected that this program will accelerate further and expand due to the admission of patients directly from the community as well as continued admission of patients discharged from the inpatient service.

The increase in the patient census, and the careful attention to administrative and financial procedures by the Administrator, have resulted in a gratifying improvement of the hospital's financial position. If this trend continues, it is hoped that additional funds may be provided for improvements in professional and administrative services to patients and improvements in the physical plant. The continuation of this improved financial position also would, by lessening concern, free the energy (and time) of the administration and permit their application to the broader and longer range development of the hospital in an optimistic climate in which "risk taking" is realistic.

A Coordinating Committee, composed of the heads of the clinical departments and the administration, was formed to advise the Director concerning the formulation of administrative and professional policy, as well as to achieve better integration between the various functions of the hospital.

The report of the Director of Internal Medicine focuses attention once again on the problem of recruiting internists to care for the medical needs of patients and staff. Because it has been necessary in recent years to employ a number of physicians for different phases of the medical care of the patients, the care is more fragmented than is optimal. It is hoped that the unique opportunities which the relationship of the hospital to the General Hospital provides can be exploited for the purpose of developing a medical service closely associated with that of the General. Not only would this provide better medical care for the patients than is possible at the moment, but it might also provide unique training and professional opportunities for the medical staff at the General.

The research effort of the hospital was strengthened and expanded during the past year. The Research Laboratory under Dr. Jordi Folch-Pi, with his associates Dr. Alfred Pope and Dr. J. David Robertson, continued to make its contribution to the total research effort of the hospital not only in the laboratory itself but also as members of the Research Committee.

The freedom from clinical responsibility resulting from the appointment of Dr. Silverman permitted Dr. Stanton to begin to devote himself more fully to the development of research programs in the behavioral sciences and in psychiatry.

The research effort received an additional stimulus through the

award of a General Research Support Grant from the National Institute of Health. The considerable latitude allowed to the hospital in the expenditure of these funds provides a unique opportunity for experimentation in different areas. Under the chairmanship of Dr. Pope, a Research Committee composed of scientists representing the various disciplines in the hospital was created to facilitate the co-ordination of the research programs as well as to advise the Director on the most effective way of administering the General Research Support Grant. In addition to these administrative purposes, it is hoped that this committee might eventually contribute to an integration of the research effort of the hospital in the three major areas of the behavioral sciences and in biochemistry and pathology, and clinical physiology.

The end of my first full year as Director has confirmed my optimism in the future of the hospital as indicated in last year's report. There is every reason to expect that the number of patients treated at the hospital will continue to increase, and the number may eventually be limited only by the availability of space and professional staff. While the cost of hospitalization is undeniably high, evidence shows that an increasing number of people are able to afford psychiatric treatment in a private hospital. This is an exciting era for the development of a psychiatric hospital. There is a great deal of public interest in psychiatric illness and treatment. Throughout the Commonwealth and elsewhere new psychiatric centers are being planned which present this hospital with an opportunity and a challenge. Its opportunity results from long experience with current treatment concepts which means that many programs already exist at the hospital which can be expanded readily to provide comprehensive psychiatric care to a community. With the emphasis on the development of community mental health centers, the hospital is in a favorable position to provide such comprehensive services if it extends itself into the community and develops functional relationships with the various agencies of the community. Because of its special position as a private, non-profit hospital committed to patient care, teaching and research, it may be able to provide these services more effectively than other institutions.

The development of psychiatry at the General Hospital also provides the opportunity to exploit the unique relationship that exists between the two institutions by providing for joint planning aimed at maximizing the contributions of each, while whenever possible, avoiding dupli-

cation. This serves to emphasize once again the importance of the close working relationships established between this hospital and Doctors John Knowles, Erich Lindemann and Ellsworth Neumann of the Massachusetts General Hospital.

Once again the Director is deeply aware that the accomplishments of the past year, just as the dreams of the future, could not materialize without the continued support, advice and encouragement of the Trustees, and especially of the McLean Hospital Committee.

FRANCIS DE MARNEFFE, M.D.

Report of the Psychiatrist in Chief

IF it has ever been true that a psychiatric hospital could proceed quietly on its way without the risk of change and development, it is not true now. Public and, indeed, national interest in psychiatric hospital practices and community care have grown to recognize, even though still dimly, that the usual level of care in the United States is both insufferably less than the care we now know how to give, and that the repair of this enormity is not beyond our intellectual, financial, or political means. More than ever, then, the special responsibility of the private teaching psychiatric hospital is to provide leadership in practice, education, and research. This leadership is its warrant for its large expenditure of personnel and of funds; while the funds come largely from the patients and from their families for the provision of patient care, support from the community and from the Federal government makes possible the teaching and research productivity of the hospital. Without this help, the hospital would face the threat of becoming little more than a refuge for the more economically fortunate where, indeed, if experience is a correct indicator, the level of patient care would tend to sink together with a dwindling contribution to the community.

Two major changes at the hospital during the past year put McLean in a stronger position to provide this leadership; each represents a logical outgrowth of the development of the last few years. Each represents only one step, although an important one, in re-adapting the hospital as a community center for a wider range of mental health activity.

The opening of the new rehabilitation building, the result of the donations to the hospital on the occasion of its 150th Anniversary and a matching grant of funds from the Federal government, will make possible a progressively expanded program of services for patients in the hospital, for hospital patients in the Day Care program, for ex-patients, and for out-patients who have never been hospitalized and who may never need hospital care.

Modern treatment methods, much more focused on the particular

needs of a patient, arising from the relations of the patient in his community, require that provisions for the patient's activity be closely tailored to his own status. This does not imply that he is "taken care of" more protectively; he is given earlier and better chances to care for himself and for others than was considered possible only a few years ago. But these earlier and better chances for the patient's own activity require much more varied opportunities than the traditional hospital could provide; the patient who demands the least of the hospital was the patient who retired quietly to some corner permitting everyone to wait. We now know something of how to do treatment as a community matter, whether the community be the wider one, the hospital community itself, or some part of both. But a range is needed, and can now be provided by the new Center. Dr. Stephen L. Washburn's management of the Day Care Center program is built upon this concept and the new building provides a home which is appropriate to the energetic development of the program which it has had.

The hospital reorganization, begun last year by Dr. de Marneffe's appointment as Director, was completed during the year. Dr. Samuel Silverman, Attending Psychiatrist at the hospital, assumed the new position of Director of Clinical Psychiatry at the beginning of the academic year 1963-1964. He brings with him a long experience in the active treatment of patients, of teaching, of scholarly work, and a thorough familiarity with the McLean program. He assumes the direction of the clinical program and of the resident education program. His position at Harvard as Assistant Clinical Professor of Psychiatry means a further strengthening of the Medical School teaching and of clinical research in psychiatry.

The coming of Dr. Silverman will mean that Dr. Alfred Stanton, the Psychiatrist in Chief, will be free to develop the behavioral and psychiatric research program at the hospital more actively than he has in the past.

McLean has a long and serious tradition of research and its contributions have been significant throughout this century, growing in importance recently under the direction of Drs. Folch-Pi, Pope, and Robertson. It is highly appropriate, then, that research in areas which can hardly be conducted in other settings than a psychiatric hospital—those of serious behavioral pathology and in pertinent areas of the social and behavioral sciences—should be developed. Interest in social

and community aspects of psychiatric disorder is built upon widespread recognition of its major clinical importance, but adequate scientific exploration of the area is only in its infancy; the establishment of a more stably supported program in this area is very much needed.

The psychiatric staff of the hospital has grown in a few years, commensurate with one of the main purposes of the hospital—the determination to make it possible, in this hospital, to provide all the treatment which can be of value to every patient admitted. With the growth of intensive psychotherapy, the need for psychiatrists has accordingly increased. The arrangements making it possible for patients to continue after their discharge with the same psychiatrists are unusual arrangements, surprisingly; a much more usual hospital practice is to change therapists routinely at discharge when a patient's readjustment may be at its most critical point.

The staff has become, as a result, a large group of highly experienced hospital psychiatrists, many having psychoanalytic training in addition to their psychiatric experience; it is a staff which represents a rare treatment, scientific, and educational resource. The national shortage of psychiatrists has usually meant that psychiatrists, after a short period of hospital training, move into private practice, devoting only a modicum of time to experience with patients sick enough to need hospitalization. In contrast to other specialties, then, psychiatry has a relative dearth of seasoned clinicians able to treat the most ill. Their care is, in general, in the hands of supervised resident psychiatrists throughout the country. While residents are active at McLean, their supervision comes now from a large group of staff experienced in hospital psychiatry for many years and continuing actively in its practice.

At the same time, psychiatrists in the community who wish to continue with psychotherapy with patients who need hospitalization have been able to do so by being officially placed on the Courtesy Staff, a new category of staff membership. The number of such carefully screened psychiatrists indicates the community value of the hospital backing up the office practice of psychiatry with this arrangement; their patients come under the management of the hospital full-time staff during hospitalization, thus freeing the Courtesy Staff member to continue with his treatment of the patient less encumbered than would otherwise be the case.

Plans for installing an electroencephalogram promise the develop-

ment of a more convenient and efficient neurological diagnostic study. The laboratory was made possible by the gift of Mrs. Benjamin Halpern. While the use of an E.E.G. laboratory at the General Hospital has proved more than adequate for diagnostic purposes, transportation has impeded efficiency and the use of the apparatus for research purposes at McLean.

The use of the new research observation facilities and the laboratory equipment made possible by the gift of Mrs. Nathan Gordon comes at a crucial time when the planning of a psychiatric research program is significantly broadening. The equipment will be of basic value for a number of research projects upon psychotherapy and small group functioning, and will have considerable value in teaching.

The need for college educational programs for patients in the hospital has been insistent; a considerable number of gifted college students coming to the hospital whose breakdown requires a year or more out of school, should avoid losing all the ground they now must lose. Our ability to provide an educational program at this level would have a double effect—it would permit the use of the time in hospital for realistic, productive work, giving at the same time grounds for appraising their ability to return to college, and, additionally, it would improve the treatment program of the hospital for these and other patients.

It is very clear that the interest and the genuine vision of the Trustees of the hospital have been an essential element in the gratifying growth of the hospital services during the past year.

ALFRED H. STANTON, M.D.

Report of the Administrator

THE successful and smooth operation of the McLean Hospital during the past fiscal year was chiefly the result of the stabilizing effect of the administrative reorganization of the hospital discussed in last year's annual report; the ability of the hospital departments to adapt to the needs and demands of a growing institution; minimum turnover of key personnel, and a sound financial operation. The hospital was accredited for a 3-year period by the Joint Commission on Accreditation of Hospitals.

After 5 consecutive years of substantial financial deficits totaling $544,000 the fiscal year ended with a net surplus of $2,500. The average daily in-patient census increased from 207 in 1962 to 215. An increase in net operating income of $258,000 over 1962 was due primarily to the increase in patient census, but also included the continued growth of the day care program — 25% over 1962 and 141% over the past 2 years — and a 27% increase in other patient income. Total expenses of $3,419,000 represented an increase of 3.2% over last fiscal year. Nursing salaries rose by 5.7%, while other salaries increased 11.3%. All other expenses decreased by 8.5%. Major factors in the substantial increase in salary expense included raising the minimum wage and the starting salary for graduate nurses, routine salary increments, higher shift differentials for nurses, payment of time and a half for overtime, greater use of special nurses for patients, the availability of qualified personnel to fill existing vacancies, and the establishment of new positions in both the clinical and service departments.

The expansion of the Accounting Department to include a separate Patients' Accounts section has greatly improved the communications and activities pertaining to current and outstanding accounts, as well as expediting the processing of insurance correspondence and claims. In addition to a 5.4% reduction of overdue accounts, more time has become available for, and more effort devoted to, the financial issues and problems of patients and their families. The increase in hospitalization insurance coverage is a major factor in the ability of patients to finance hospital care. Of the 386 patients admitted to the hospital dur-

ing the past year, 221 or 57% had some form of coverage — either Blue Cross or other health insurance plans. There is no doubt that the continued solvency and growth of the voluntary non-governmental psychiatric hospital system is in part dependent on the availability of expanded benefits or third party insurance programs for psychiatric disorders.

The Rehabilitation Center which opened in July has become a tremendous addition to the physical plant and should serve as an impetus for the future development of the hospital.

In recent years a great deal has been said about the age, condition and obsolescence of the plant. In general, most of the buildings are structurally sound but leave much to be desired functionally, especially as patient units. Of extreme urgency is the elimination of the DC generating equipment and the replacement of the Power House boilers. A 4-year plan has been developed which calls for completion of the AC conversion program and for the installation of 3 low-pressure boilers at an estimated cost of $400,000.

Work on the development of a plant ledger was completed during the year with an estimated 1964 depreciation expense of $141,000. In the future the purchase of equipment and major plant improvements will be handled through capital accounts rather than expense accounts.

During the year $88,000 was expended for major plant improvements and equipment in addition to the funds committed for unfinished 1962 projects. The completed work included installation of the new primary AC service and alternate feeders to the transformer vaults, purchase of a 300 KVA transformer from the Town of Belmont, installation of a deaerator, retubing a boiler in the Power House, rebuilding one DC generator, installation of a low-pressure steam main to Bowditch and the Men Nurses' Home, remodeling of the first floor of the Administration Building, renovation and enlargement of the employees' cafeteria, installation of a modern two-position telephone switchboard, and installation of a modern electrical sign at the main hospital entrance. Exterior painting included the Assistant Physician's Cottage, Pleasant Street Lodge, Shop Buildings, North Belknap and South Belknap. Interior painting included North Belknap first floor corridor, portions of the Gymnasium, Women Nurses' Home and other miscellaneous areas. The South Belknap exterior porches were rebuilt. The replacement of gutters and downspouts and an accelerated program of roof inspections

and repairs has reduced leaks and emergency repairs to a minimum.

The preventive maintenance program has been expanded by the employment of an evening utility mechanic. Because of the change in emphasis on departmental activities and the need for internal architectural and programming services, a complete review and analysis of the Maintenance Department is planned for next fiscal year.

It was with a deep sense of loss and sadness that the hospital noted the death of Mr. Milton J. MacKinnon on December 13, 1962. Mr. MacKinnon was Assistant Chief of Plant and Operations for over 33 years and was a truly dedicated and responsible employee.

The Department of Grounds and Transportation functioned effectively during the year with a minimal amount of personnel turnover. Special activities included completing the Upham House road, installing a black-top walk in the Gymnasium yard, and repairing and rebuilding the perimeter fences. Additional personnel will be required during the summer months to care for the grounds and shrubbery around the Rehabilitation Center. The hospital vehicles traveled approximately 50,000 miles during the year. There were 887 hours of patient drives. Because of the age of much of the equipment, a replacement program will get underway in the near future.

The greenhouse and garden continued to benefit both patients and volunteers by serving as the nucleus for the Gardening Club — a volunteer program activity. The greenhouse also provides the hospital with an abundance of flowers for social functions, brightening patient halls and decorating the Chapel for church services.

The Housekeeping Department has found it difficult to keep pace with the growing need and demand for cleaning services. The opening of the Rehabilitation Center increased the need for cleaning personnel as well as for additional supervision. Departmental turnover and a lack of satisfactory applicants has compounded the problem. The use of contract housecleaning services in office areas is also being evaluated at this time.

Several proposals have been discussed for the transfer of patient food service functions from the Housekeeping Department to the Dietary Department, but had to be abandoned because of the cost involved. A self-service food program has been well accepted by the South Belknap I patients and staff but has not generated much enthusiasm on other units. A great deal of additional planning is required in this area.

A battery-powered floor sweeper was purchased during the year and has improved the general appearance of the tunnel system as well as reducing the number of personnel required to perform this task.

The Laundry continued to operate at a high rate of efficiency with a minimal amount of personnel turnover. New pressing equipment has been installed at a cost of approximately $6,000 and will amortize itself in 4 years. Plans for the next fiscal year include the removal of a potential fire hazard by converting the flatwork ironer from DC to AC current. The hospital notes with regret the retirement of Mr. William Martin who since 1943 has been a valued employee.

The internal reorganization and upgrading of the Dietary Department continued during the past year. In addition to the cafeteria improvements mentioned earlier, a reach-in refrigerator was purchased for the main kitchen in order to simplify food control. The job responsibilities and work volume for cooks was revised, and competitive salary ranges for this group put into practice. A porter foreman position was established and has greatly reduced assignment and supervisory problems. Miss Mary Madden resigned as Administrative Dietitian and was replaced by Mrs. Audrey Graham.

A complete system of internal costing was developed during the year. Control areas for food were established with this program, and the responsibility of controlling the storage of perishables was transferred from the Purchasing Storeroom to the Dietary Department. Frozen meats which are now a direct food charge will be included in the hospital perpetual inventory system next year.

The dietary staff has participated in patient and staff meetings throughout the year and has held individual conferences with patients regarding food problems. Nevertheless, the lack of direct dietary supervision of food service on patient units remains an unsolved problem.

A full-time Manager was appointed to supervise the new Coffee Shop and Store in the Rehabilitation Center. The Auxiliary has indicated continued interest in assuming responsibility for the operation and staffing of the Store and will probably do so sometime next year.

Since June the hospital has been purchasing meat and poultry through the Hospital Purchasing Service of the Greater Boston Hospital Council. The procurement procedure includes weekly competitive bids using written specifications for meat and poultry items approved by the

Department of Agriculture, with all deliveries being inspected by the U.S.D.A. Acceptance and Grading Service. Participation in this program has resulted in improved standardization and consistent quality of meat and poultry items without any increase in cost.

In the Store Control Program the category of housekeeping supplies was converted from a write-in stores catalog system to a preprinted requisition which has facilitated ordering and inventory posting. A system of automatic replenishment of grocery and housekeeping supplies on all patient units is being evaluated by the Purchasing Department at this time. During the year approximately $26,000 was spent for major movable equipment, including $5,000 for patient areas. Plans for next year include refurbishing one complete patient unit, probably Codman House I.

The Personnel Department, through continued newspaper advertising, was able to fill job vacancies, although turnover in the Housekeeping, Dietary and Psychiatric Aide groups presented many problems throughout the year. Secretarial vacancies also have been most difficult to fill. During the year 359 regular personnel and 35 vacation relief personnel were hired — 42% of the 856 applicants interviewed. Seven employees with a total of 206 years of dedicated service to the hospital retired during the year, increasing the number of pensioners to 63.

In May, 37 employees were honored at the annual service pin award reception and tea. Miss Cretie Harris, Head Seamstress, was awarded a 40-year pin. Thirty-year pins were awarded to Daniel J. Coleman, Maintenance Department; George B. Durham, Patients' Receiving Unit; Mrs. May Ross and Miss Mary Whalen, Housekeeping Department. A 20-year pin was awarded to Miss Alfreda Haskell, also of the Housekeeping Department. Ten employees received 10-year service pins.

An employee handbook was developed and issued to all personnel during the year. Future plans include a clinical orientation program for non-professional personnel, consolidation of employee living quarters, and a formal exit interview procedure.

After 4 years of faithful service, Mrs. Jean R. Poor resigned as Medical Record Librarian. Miss Dalila M. Mockapetris, Associate Medical Record Librarian, has continued with the supervision of the department. The program to decentralize medical records on all patient units was completed during the year, and a messenger service was instituted to

handle the flow of medical record material between the department and the patient units. There was an increase in work volume which was absorbed within the existing complement, but additional transcription personnel will probably be required next year. Efforts of the department during 1964 will be directed towards revision and updating of all medical record procedure manuals, a quantitative systematic monthly chart review on all units, and the rotation of specified medical record personnel through all sections in order to strengthen the department.

On April 15, 1963 Miss Rose Farkas was appointed Director of Activity Therapies, replacing Mrs. Ada Roth who resigned last year. Miss Farkas received her Master's degree in Social Work from New York University and, prior to her appointment at McLean Hospital, was a member of the Psychiatric Social Service Department at the Menninger Hospital, Topeka, Kansas. Miss Farkas will present a separate report on the activities of her department.

My first complete year as Administrator of the McLean Hospital has been a satisfying and rewarding experience. This report indicates that much has been accomplished during the past 12 months. The hospital is operating within a sound financial and organizational structure; a program has been developed for the replacement of obsolete fixed and major movable equipment; work continues on repairing and upgrading of hospital buildings; salary ranges are becoming more competitive with business and industry. However, many problem areas still exist, including the continued upward spiral of cost of hospitalization, the lack of community financial support, the limited amount of hospitalization insurance coverage, the shortage of adequately trained psychiatric nurses, and the difficulty in attracting non-professional personnel.

I again wish to express my appreciation to all department heads and personnel who, through their loyal and untiring efforts, have met the varied demands of providing service to McLean Hospital and to all the patients the hospital is privileged to serve.

HENRY J. LANGEVIN

McLean Hospital

BALANCE SHEET

September 29, 1963

Assets:			
Cash			$89,779.59
Accounts Receivable—Patients		$805,262.76	
Less: Allowance for Doubtful Accounts		96,755.76	708,507.00
Accounts Receivable—Other			4,835.24
Inventories—Non Perpetual			42,262.55
Inventories—Perpetual			22,140.79
Prepaid Items			2,241.64
TOTAL ASSETS			$869,766.81
Liabilities:			
Accounts Payable		$16,672.27	
Federal and State Taxes Payable		8,666.68	
Reserve for Workmen's Compensation		16,201.42	
Blue Cross-Blue Shield Premiums Payable		15.95	
Fiduciary Exchange Accounts		693.95	
Total Liabilities			$42,250.27
Treasurer's Equity			
Treasurer's Equity—September 30, 1962		$687,815.47	
Add: Cash from Treasurer (Year to Date)		700,000.00	
Less: Operating Deficit (Year to Date)	(36,608.23)		
Disbursements—Special Funds (Year to Date)	(523,690.70)	(560,298.93)	
Treasurer's Equity—September 29, 1963			827,516.54
Total Liabilities and Treasurer's Equity			$869,766.81

McLean Hospital

CUMULATIVE OPERATING STATEMENT

	Current Year 10/1/62-9/29/63	Previous Year 10/2/61-9/30/62
Patient Days	78,265	75,222
Average Daily Census	215	207
Percentage of Occupancy (Cap. 278 Beds)	77	74
Income:		
Room and Care	$3,025,573.00	$2,891,696.00
Day Care	73,445.65	58,611.50
Night Care	8,839.50	15,632.00
Other Patient Income	470,546.48	371,275.33
Other Non-Patient Income	187,170.48	169,786.69
Total Operating Income	$3,765,575.11	$3,507,001.52
Deductions from Income:		
Free Service—In-Patients	$271,337.00	$274,500.26
Free Service—Day Care	7,958.00	6,581.25
Free Service—Night Care	—0—	23.00
Free Service—Special Nursing	—0—	7,999.94
Courtesy Allowance	34,220.00	25,087.00
Provisions for Doubtful Accounts	69,200.00	55,999.95
Total Deductions from Income	$382,715.00	$370,191.40
Net Operating Income:	$3,382,860.11	$3,136,810.12
Expenses:		
Salaries—Nursing	$1,070,942.14	$1,012,697.73
Salaries—Other	1,360,887.26	1,222,552.23
Supplies	422,314.34	431,153.84
Equipment and Improvement Alterations	87,843.10	157,285.09
Outside Service	272,009.94	298,809.57
Other Expenses	205,471.56	191,673.66
Total Expenses	$3,419,468.34	$3,314,172.12
Net Operating Deficit:	(36,608.23)	(177,362.00)
Treasurer's Income:	57,634.54	56,917.58
Less: Treasurer's Expenses	18,531.25	16,059.46
Net Treasurer's Income	$39,103.29	$40,858.12
NET SURPLUS OR (DEFICIT)	$2,495.06	($136,503.88)

Voluntary Patient Contributions

IMPROVEMENT in illness is traditionally associated with some voluntary effort by the patient. The workings of this spirit are in no field more effective than in psychiatry, and at McLean during the past year there have been not only the official efforts of the staff, but also the invaluable voluntary drive of the patients. This report will sketch some aspects of their spirit in rehabilitation from illness.

The staff particularly has appreciated the voluntary attitudes of patients working with their physicians in the hard task of psychotherapy, a rewarding but often painful procedure. Patients have herein sought not only symptomatic relief but also character change and improved adjustment.

Patient's voluntary activities and interest in others at the same time structures their own individual improvement. There is a very unusual atmosphere of interpersonal friendship and helpfulness among all manner of patients at the hospital. This occurs as patients go to all departments of the hospital and is usually informal and often unobserved. One crucible of such interrelationships not often credited with therapeutic effect is the coffee shop, an area of high social interaction and low manifestation of illness. The close association of the Hospital Store manned by the McLean Hospital Auxiliary has been a vital addition.

The more organized voluntary social events are increasing in number so that entertainments and excursions are organized from the halls. But they often occur in connection with the Patient Activities Committee, and around special groups such as the basketball team with volunteer workers for the community. Patients have also put on special events such as musicals and plays. There have been the Girls' Club and the weekly events of the engaging Young Adult Lounge, under staff leadership of group workers, but largely self-energized.

Group Workers have passed along to Nursing the leadership of the Patient's Work "Crew" of 10-12 patients, which has been functioning for four years; the work is productive and the morale excellent. Also a general Patient's Work Program has enlisted about 30 patients con-

tinuously in part-time jobs working directly for regular hospital departments. The hospital celebrates the patients' voluntary contribution twice yearly with a steak dinner and brief speeches. One hall (South Belknap I) has a very satisfactory program in which patients largely care for their hall, serving their own hospital cooked meals. At the Day Care Center the cooking itself is done by patients. Other halls enjoy maid service but miss the chance for responsibility.

School pupils "have to" go to school at the hospital (Arlington House School) just as they do in the community. But an unusual amount of work and effort is spent by our pupils many of them having had school troubles but are making thorough academic advances here. Adult education is about to start but in the meantime many adults are continuing to be devoted to our library.

All of the halls are now having Hall Meetings for patients at least once a week which bring about better group living and improved individual psychology. Some of these meetings are concerned with social events but more of them directly discuss problems of the hall.

The Patient-Personnel Conference is a conference between representative patients and a cross section of staff and has continued in weekly meetings to develop opinions about the particular conditions and atmosphere of our hospital life.

Appreciation is expressed by patients and staff for a milieu in which such a large voluntary effort by patients is possible and encouraged.

PAUL M. HOWARD, M.D.
Associate Director of Clinical Psychiatry

Hospital Population 1962-1963

STATISTICS present a picture of a hospital "frozen" artificially at convenient but arbitrary intervals. Table I details the patient population with which the hospital began the year, the population added by admissions and subtracted by discharges, and the population remaining at the end of the year. This table also includes a tally of the changes that have taken place. Table II examines admissions more closely. Table III examines discharges.

To comment on but a few facets of the hospital population, we note:

1. The total number of patients on the hospital rolls has remained quite constant, even with a considerably increased number of admissions. This reflects a long-term trend of an increasing number of admissions being required to maintain a constant bed occupancy rate. Since staff work tends to be heavy early in the patient's stay, this implies an appreciably increased work load on the hospital.

2. Another trend, that towards a younger population, continues. In this year the group under 30 years of age increased by 7%. This trend, not dramatic in any one year but accumulating over time, means that very different demands are made on the hospital.

3. Patients diagnosed as schizophrenic reactions still constitute the bulk of patients (42%). However, the younger patients tend more frequently to be diagnosed as personality disturbances and situational reactions. Thus schizophrenic reactions, which have traditionally been the majority of hospitalized patients, are gradually becoming a smaller proportion of the population. This, too, can be expected to have far-reaching effects on hospital programs.

4. Admissions in general, and readmissions of McLean patients in particular, have a much higher likelihood of being diagnosed as personality disturbances than formerly. Compared to the previous year, personality disturbances have risen from 25% to 37%, and are highest among McLean readmissions (44%). Whether or not this represents increasing success of schizophrenic patients remaining out of the hospital (the proportion of schizophrenic patients among first admissions is unchanged) could only be determined by a long-term follow-up.

5. Discharges are predominantly patients who have been in hospital for a short period. However, longer-term patients are also discharged — 13% having been in hospital for more than a year.

NORMAN W. BELL, PH.D.
Chief, Social Science Department

TABLE I — PATIENT POPULATION 1962

CHARACTERISTIC		Beginning of Year October 1, 1962				Admitted During Year			
Total Number		In Hospital — 216 On Visit — 31		247				386	
SEX	Male	38%				40%			
	Female	62%				60%			
AGE		Male	Female	Total	% of Total	Male	Female	Total	% of Total
	0-20	28	18	46	19	42	40	82	21
	21-30	23	19	42	17	33	40	73	19
	31-40	9	29	38	15	24	54	78	20
	41-50	5	18	23	9	21	54	75	19
	51-60	11	20	31	13	16	21	37	10
	61-70	10	18	28	11	9	13	22	6
	71-80	6	13	19	8	6	7	13	3
	81 and up	2	18	20	8	2	4	6	2
		94	153	247	100	153	233	386	100
DIAGNOSIS									
Acute Brain Syndrome		0	0	0	0	6	3	9	2
Chronic Brain Syndrome		12	20	32	13	5	8	13	3
Mental Deficiency		0	0	0	0	0	0	0	0
Involutional PsychoticReaction		0	7	7	3	1	6	7	2
Affective Reaction		10	16	26	10	14	19	33	9
Schizophrenic Reaction		45	67	112	45	37	56	93	24
Paranoid Reaction		1	3	4	2	1	0	1	*
Psychophysiological Reaction		0	1	1	*	0	0	0	0
Psychoneurotic Depressive Reaction		4	15	19	8	31	31	62	16
Personality Disturbance		19	20	39	16	45	98	143	37
Transient Situational Personality Disorder		3	4	7	3	13	12	25	6
		94	153	247	100	153	233	386	100

*Less than 1%

3 BY SELECTED CHARACTERISTICS

arged During Year			Remaining at End September 29, 1963				Change During Year			
	384		In Hospital — 218 On Visit — 31		249				+2 0	+2
			39%				0%			
			61%				0%			
Female	Total	% of Total	Male	Female	Total	% of Total	Male	Female	Total	% of Total
31	74	20	27	27	54	22	—1	+9	+8	+3
37	64	16	29	22	51	21	+6	+3	+9	+4
58	82	24	9	25	34	13	0	—4	—4	—2
49	67	17	8	23	31	12	+3	+5	+8	+3
24	46	12	5	17	22	8	—6	—3	—9	—3
19	28	7	10	12	22	9	0	—6	—6	—2
10	16	3	6	10	16	7	0	—3	—3	—1
7	7	1	4	15	19	8	+2	—3	—1	0
235	384	100	98	145	249	100	+4	—2	+2	0
2	7	2	1	1	2	*	+1	+1	+2	*
10	16	4	11	18	29	12	—1	—2	—3	—1
0	0	0	0	0	0	0	0	0	0	0
9	10	3	0	4	4	2	0	—3	—3	—1
26	43	11	7	9	16	6	—3	—7	—10	—4
63	101	26	44	60	104	42	—1	—7	—8	—3
1	2	1	1	2	3	1	0	—1	—1	—1
1	1	*	0	0	0	0	0	—1	—1	0
33	59	15	9	13	22	9	+5	—2	+3	+1
85	132	35	17	33	50	20	—2	+13	+11	+4
5	13	3	8	11	19	8	+5	+7	+12	+5
235	384	100	98	148	249	100	+4	—2	+2	0

1963 BY SELECTED CHARACTERISTICS

Discharged During Year				Remaining at End September 29, 1963				Change During Year			
		384		In Hospital — 218 On Visit — 31		249				+2 0	+2
39%				39%				0%			
61%				61%				0%			
Male	Female	Total	% of Total	Male	Female	Total	% of Total	Male	Female	Total	% of Total
43	31	74	20	27	27	54	22	—1	+9	+8	+3
27	37	64	16	29	22	51	21	+6	+3	+9	+4
24	58	82	24	9	25	34	13	0	—4	—4	—2
18	49	67	17	8	23	31	12	+3	+5	+8	+3
22	24	46	12	5	17	22	8	—6	—3	—9	—3
9	19	28	7	10	12	22	9	0	—6	—6	—2
6	10	16	3	6	10	16	7	0	—3	—3	—1
0	7	7	1	4	15	19	8	+2	—3	—1	0
149	235	384	100	98	145	249	100	+4	—2	+2	0
5	2	7	2	1	1	2	*	+1	+1	+2	*
6	10	16	4	11	18	29	12	—1	—2	—3	—1
0	0	0	0	0	0	0	0	0	0	0	0
1	9	10	3	0	4	4	2	0	—3	—3	—1
17	26	43	11	7	9	16	6	—3	—7	—10	—4
38	63	101	26	44	60	104	42	—1	—7	—8	—3
1	1	2	1	1	2	3	1	0	—1	—1	—1
0	1	1	*	0	0	0	0	0	—1	—1	0
26	33	59	15	9	13	22	9	+5	—2	+3	+1
47	85	132	35	17	33	50	20	—2	+13	+11	+4
8	5	13	3	8	11	19	8	+5	+7	+12	+5
149	235	384	100	98	148	249	100	+4	—2	+2	0

McLean Hospital
Table II
Admissions 1962-1963
By Previous Hospital Experience, Sex and Related Other Characteristics

	1st to Any				*1st to McLean*				*Readm. McLean*				*Total*			
A. SOURCE	M	F	T	%	M	F	T	%	M	F	T	%	M	F	T	%
Home	49	70	119	64	10	19	29	34	17	53	70	62	76	142	218	56
General Hospital	17	23	40	21	3	11	14	16	5	4	9	8	25	38	63	16
Psychiatric Hospital	0	0	0	0	12	15	27	31	3	6	9	8	15	21	36	10
Other	18	10	28	15	7	9	16	19	12	13	25	22	37	32	69	18
Total	84	103	187	100	32	54	86	100	37	76	113	100	153	233	386	100
B. DIAGNOSIS																
Acute Brain Syndrome	5	3	8	4	0	0	0	0	1	0	1	*	6	3	9	2
Chronic Brain Syndrome	4	5	9	5	1	1	2	2	0	2	2	2	5	8	13	3
Involutional Psychotic Reaction	1	4	5	3	0	1	1	1	0	1	1	*	1	6	7	2
Affective Reaction	9	6	15	8	1	6	7	8	4	7	11	10	14	19	33	9
Schizophrenic Reaction	17	25	42	22	10	11	21	24	10	20	30	27	37	56	93	24
Paranoid State	1	0	1	*	0	0	0	0	0	0	0	*	1	0	1	*
Psychoneurotic Depressive Reaction	21	14	35	19	5	5	10	12	5	12	17	15	31	31	62	16
Personality Disturbance	17	40	57	30	11	25	36	42	17	33	50	44	45	98	143	37
Transient Situational Personality Disorder	9	6	15	8	4	5	9	10	0	1	1	*	13	12	25	6
Totals	84	103	187	100	32	54	86	100	37	76	113	100	153	233	386	100
C. AGES																
0 — 20	27	28	55	29	8	5	13	15	7	7	14	12	42	40	82	21
21 — 30	18	13	31	17	9	17	26	30	6	10	16	14	33	40	73	19
31 — 40	11	20	31	17	4	11	15	17	9	23	32	28	24	54	78	20
41 — 50	11	13	24	13	4	14	18	21	6	27	33	29	21	54	75	19
51 — 60	10	14	24	13	1	4	5	6	5	3	8	7	16	21	37	10
61 — 70	3	7	10	5	2	2	4	5	4	4	8	7	9	13	22	6
71 — 80	3	4	7	4	3	1	4	5	0	2	2	2	6	7	13	3
81 — Up	1	4	5	3	1	0	1	1	0	0	0	0	2	4	6	2
	84	103	187	100	32	54	86	100	37	76	113	100	153	233	386	100

*Less than 1%

McLean Hospital

Table III

Discharges 1962-1963

By Sex and Selected Other Characteristics

DESTINATION	Male	Female	Total	%
Home	93	159	252	66
Psychiatric Hospital	18	26	44	11
General Hospital or Nursing Home	7	10	17	4
School	0	2	2	1
Foster Home	1	0	1	*
Deceased	6	13	19	5
Other	24	25	49	13
	149	235	384	100
CONDITION				
Recovered	10	4	14	4
Much Improved	28	19	47	12
Moderately Improved	44	85	129	34
Slightly Improved	40	64	104	27
Unimproved	20	49	69	18
Worse	1	1	2	1
Deceased	6	13	19	4
	149	235	384	100
LENGTH OF STAY				
0 — 10 Days	19	32	51	13
11 — 30	26	31	57	15
31 — 90	45	68	113	29
91 — 365	39	76	115	30
1 — 2 Years	10	10	20	6
2 — 5	6	6	12	3
5 — & over	4	12	16	4
	149	235	384	100

*Less than 1%

Report of the Department of Patient Education

THIS past year has been a period of not only expansion of activities and interests but consolidation of activities as well. Our perception of the program has not changed materially in any essential respect. We are still providing a curriculum with a strong emphasis on general education. There is a practical advantage to this type of program in that credit for such course work is most easily transferred to other schools, fulfilling as it does the basic general education component requirement of a typical secondary school program. But beyond this consideration is the increasing need for broadly educated men and women who can respond intelligently and confidently to the complex problems and issues of these times. With a vigorous academic program, we hope to give the greatest possible range to our students thereby avoiding unnecessary restrictiveness in the education, and consequently, the life's work of these young people.

A program of studies designed particularly for the college age student was initiated during the past year. In June, 1963, representatives from approximately 20 New England colleges and universities met at the invitation of McLean Hospital to discuss ways in which students who had to drop out of college because of emotional problems could be helped to continue with their education. A college-level workshop course in basic design and visual composition was given in the Spring of 1963. Two academic courses — Political Science and Literature — will be offered during the fall semester. Reactions from both instructors and students have been extremely encouraging; it is clear that a number of patients can undertake collegiate course work even during a period of complete hospitalization.

The table which follows summarizes some basic data on number of courses, staff, and student enrollment.

Summary of Curriculum, Staff, and Student Enrollment

	Fall Semester September 1962-February 1963	Spring Semester February-June 1963	Summer Session 1963
Faculty			
High School			
Full-time*	4	5	5
Part-time	3	4	—
Tutors	5	6	—
Advanced	—	1	—
Total	12	16	5
Students			
High School	20	25	17
Advanced	—	6	—
Tutees (non-credit)	5	2	3
Total	25	33	20
Courses			
High School (credit)	8	8	4
Tutorial (credit)	4	8	3
Advanced	—	1	—
Total	12	17	7

*Includes Principal of School

As can be noted, the school is growing on all three dimensions. The curriculum now includes a formal program in physical education carrying diploma credit. The number of academic electives is steadily increasing. Teacher-student ratio remains satisfactory; actually more students could be accommodated within the existing class organization. The addition of a school library under the direction of a qualified school librarian is providing considerable support to the instructional program.

One major criterion of success in the Arlington School program is the extent to which students are able to achieve the stated objectives. We have set forth as one of the main objectives of the school the maintenance of continuity in the education of the adolescent patients. The record shows consistent improvement in this respect. During the

first semester of the academic year 1962-63, a little more than 50% of the academic courses for which students were registered were completed for credit. This figure rose to 70% in the spring semester of the same year and 90% in the summer session. Eight students have completed requirements for a high school diploma granted by the Massachusetts Department of Education through credits earned at Arlington School. Three of these students are going on for collegiate study.

Miss Ellen M. Riordan was appointed Principal of the School to replace Mrs. Lou Aileen Fix who left in July, 1963. The teacher in-service training seminar is under the direction of Dr. Thomas Frank, a psychiatrist who has had experience working with public school personnel in the handling of emotionally disturbed children in the regular classroom.

The Advisory Committee on Patient Education under the chairmanship of Dr. William C. Kvaraceus, Professor of Education at Tufts University, met regularly throughout the year providing excellent counsel on the many problems that arise in the operation of a school within a hospital setting. The combined insights of these psychiatrists and educators have done much to help us clarify the goals and objectives of the program.

The research project activated in September 1962 under a grant from the Medical Foundation, Inc. completed the "tooling-up" period during the summer of 1963. The year of active research is currently underway with the final report due in August 1964. The results of this study of instructional adaptations in the education of emotionally disturbed adolescents should furnish a strong supporting base from which to plan the future development of Arlington School.

HELEN M. KENNEY, PH.D.

Report of the Director of Internal Medicine

THE increase in the number of admissions and in the patient census which occurred during the past year has increased the work that has to be done by all departments including, of course, the Department of Internal Medicine. Dr. William Hall's retirement to assume an important post elsewhere was followed by the appointment of Dr. Lloyd Potter as his replacement. Dr. Potter's valuable ward rounds are attended faithfully by the residents. The admission and annual physical examinations remain a problem because of the difficulty in recruiting physicians to carry out the examinations. It is difficult to imagine work that is less stimulating for a physician of experience. Theoretically at least it would be desirable to have fewer physicians responsible for each patient's treatment. Dr. Hershel Jick continues in charge of the Employes' Clinic. The long hoped for reconstruction of the Staff Clinic will take place soon.

The Pharmacy filled 31,224 prescriptions, an increase of 5,675 or 22% over the number filled in 1962. The increase is owing both to an increase in the number of patients and to a freer use of psychoactive drugs. No important new drugs have been introduced in the past few years and hence it is apparent that the attitude of the staff toward drugs has changed. Mr. George Zager's overwhelming burdens connected with running the Pharmacy were considerably lightened when an assistant was employed, thus work accumulated in the past that could not be done has now been carried out. The Pharmacy pays for itself despite the dispensing of $1,000.00 worth of drugs free.

The X-Ray Department under Dr. Majic Potsaid's direction showed an increase in work done; the total number of examinations rose from 1,410 in 1962 to 1,471, of which 1,028 were chest examinations. However the number of patients' examinations fell to 559 from 685 whereas the employes' examinations rose from 725 to 912, an increase of 26%. The reason for these changes is not evident. Mr. Herbert Davidson's relaxed and skilled handling of difficult patients continues to deserve the highest praise.

The Clinical Laboratory carries out increasing numbers of tests each

year. An increase in the use of tests is one of the characteristics of what is justifiably called "modern medicine" but is not necessarily characteristic of the best medicine. It is gratifying to note that observations indicate that clinical laboratory tests are used by the staff here more judiciously than by the staffs of many other hospitals in this area. Mr. Joseph Giancola's work in the Laboratory has come to be taken for granted by all, which is a deserved compliment to its high quality.

MARK D. ALTSCHULE, M.D.

Report of the
Director of Research in Clinical Physiology

THE studies now remain in two general fields 1) the study of aminochrome metabolism in patients, and 2) isolation of the active materials in the pineal gland.

Aminochromes, which are toxic indoles that affect the higher brain functions, were previously found to be increased in amount in the blood of patients diagnosed at the McLean Hospital as having schizophrenia. At the moment it appears that a simple and reliable method of measuring these substances in the blood has been worked out. However it should be used for about a year here before its reliability can be considered established. Having been freed of the necessity of developing the method this Laboratory has been able to turn its attention to the study of patients. When this was done it quickly became evident that patients diagnosed as having schizophrenia, affective disorders, or serious personality disorders all have increased amounts of the toxin in the blood. These findings come at a time when more and more clinicians in leading mental hospitals throughout the country are coming forward to state that the diagnosis of schizophrenia is either difficult to agree on or perhaps is actually meaningless.

Studies of the active materials in the pineal gland have been less fruitful. It has been known for some time that the gland contains serotonin (a substance whose only known function is to stimulate the writing of papers) and also a serotonin-derivative, melatonin. Melatonin has been identified by Dr. Richard J. Wurtman, formerly of this Laboratory, as the pineal substance which inhibits the gonadotrophic function of the pituitary gland. Melatonin is an impurity in the pineal-gland extracts being studied here. Accordingly it now appears that earlier attempts to use the anti-gonadal action of pineal extracts as an assay of the factor that ameliorates mental disease would have led to error if long continued. Fortunately it became unnecessary to use that particular assay a few years ago. Although some progress is being made toward the isolation of the pineal fraction being studied here the rate of progress is slow.

MARK D. ALTSCHULE, M.D.

Report of the Director of Scientific Research

DURING the year 1963, Dr. Robert Zand left the staff to join the group under Prof. L. Oncley at the University of Michigan. This move which implies a substantial promotion will permit Dr. Zand to continue his current studies on the physical chemistry of proteolipids with greater means than he had at his disposal here.

Six new people were appointed to the staff. In March Dr. Albert Soloway, a member of the group under Dr. William Sweet at the Massachusetts General Hospital, came for a one year period of training in isotope-handling and microchemical techniques. In July, Charles N. Still, M.D., University of South Carolina, and Michael J. Malone, M.D., a young neurologist from the Veterans Administration, joined us on National Institute of Health Fellowships. Carlos Doggenweiler, Ph.D., of Chile, holder of a Rockefeller Foundation Fellowship, joined the staff in August. Finally, Albert Bischoff, M.D., from Switzerland, and Raul Hinojosa, M.D., of Mexico, joined us in November.

With these and other changes, at the end of the year the Research Laboratory staff comprised of: 19 professional people, 11 research assistants, 4 laboratory assistants, 3 secretaries, 3 graduate students, and one photographer, or a total of 41 people—an increase of 5 people from the previous year. This increase reflects the growth of all programs, especially that of Dr. J. David Robertson's. A number of summer and part-time graduate and undergraduate fellows have also taken part in the work of the Laboratory.

For current operations, the laboratory received during the calendar year $205,522 from the United States Public Health Service, $8,535 from the American Heart Association and $2,000 from other sources. Beside these amounts, $36,000 has been spent from a National Science Foundation Grant received last year and $30,000 from the Ford Foundation. Hence the actual contribution to current expenses has been $216,057 + 36,000 + 30,000 = $282,057. This compares with about $231,081 received last year. The increase reflects the increase in personnel and costs, and the increase in the rate of indirect cost from 15% of direct costs to 20%.

The scientific work carried out during the year will be reviewed by the Advisory Committee on February 7, 1964. It is summarized below under three different headings, namely, *Biochemical Studies,* prepared by the undersigned; *Neuropathological Studies,* prepared by Dr. Alfred Pope; and *Biophysical Studies,* prepared by Dr. J. David Robertson.

BIOCHEMICAL STUDIES

These studies have continued to be aimed at the better definition of the macromolecular structures that underlie the morphological detail of brain, and that provide a framework for its function. They have dealt with: the continued study of the preparation of proteolipids, strandin and phosphatidopeptides in the most reasonably intact state; the physicochemical study of proteolipids, their biosynthesis, their detailed structure; the preparation of the ganglioside strandin, and its interrelation with physiological cations; the related problem of the chemistry of cerebrosides and sulfatides; the various aspects of the biochemistry of phosphatidopeptides; the biosynthesis of various carbohydrate moieties of lipids; the continuing study of pathological materials; the revamping and developing of methods of analysis and of procedures of preparation.

In the field of proteolipids, Drs. Jordi Folch and Howard Maker have continued their study of the influence of conditions of extraction and of preparation on the properties of proteolipids. They have found optimal conditions for maximum yields, and they have been able to set criteria for differentiating between proteolipids as such and other proteins that may occasionally be extracted by chloroform:methanol, especially in the presence of lipids and other proteolipids.

Miss D. Tenenbaum has pursued the original observation of Matsumoto and Matsumoto, who found that by chromatography on silicic acid a fraction of proteolipids which can only be obtained by elution with acidified solvents, and which shows physical properties different from those of the starting total proteolipid mixture. This proteolipid contains only 0.08% P and shows a distribution between the two phases of the biphasic system chloroform, 8; methanol, 4; water, 3. This is in contrast to total proteolipids or to other proteolipid fractions which accumulated quantitatively in the lower phase of the system (the least polar of the two). Miss Tenenbaum has been able to prepare such a fraction without chromatography, but by dialysis in acidified solvents.

The material obtained is definitely soluble in some aqueous solutions and shows the important property of being attacked by pronase, a bacterial protease which does not attack intact proteolipids. It is likely that Miss Tenenbaum's preparation represents a product of partial degradation of proteolipids, but it will most likely provide a weapon of much value for the study of the structure of proteolipids.

Dr. Zand has continued his study of the physical properties of proteolipids by various physical methods. Viscosimetry, light scattering, optical rotatory dispersion and ultracentrifugation have thus been applied to proteolipids. The results indicate a polyelectrolyte structure and a clear ability to aggregate and, presumably, disaggregate into particles of various sizes. All this work requires further study, and it is most encouraging that Dr. Zand, in his new position at the University of Michigan, with Dr. Oncley, is planning to continue the work.

Dr. Mokrasch and his group have continued their thorough study on the biosynthesis of proteolipids and also on their structure. In a study of the localization of the site of incorporation of amino acids in proteolipids, it has been confirmed once more that this incorporation occurs in the core, not in the terminal points of the proteolipid structure. To further emphasize the heterogeneous metabolism of the proteolipid molecule, a study of differential incorporation has shown that the phosphatidopeptides separated from proteolipids show a higher incorporation of ^{14}C amino acids than does the rest of the proteolipid. The work on over-all incorporation in vivo and in vitro has been continued, and the study of the non-enzymic incorporation has been taken anew. A feasible procedure for preparation of radioactive brain proteins has been developed. Finally, Dr. Yasuo Takahashi has continued his study of the terminal groups of proteolipids, a difficult and thus far unrewarding study but towards which substantial progress is being made.

The study of the ganglioside strandin has occupied Drs. Folch and Maker, and the full time of Mr. R. Quarles. It has been found that the method of extraction is essential to the properties of the preparation that is obtained. Thin layer chromatography has proved a tool of great value for the rapid quantitative scanning of different strandin preparations and fractions thereof. Preliminary study has suggested the possibility of fractionating strandin by countercurrent distribution.

In another approach, Mr. Quarles has continued the study of the

effect of various cations on the physical properties of strandin. He has shown these to be not much affected by sodium, potassium and magnesium in concentrations within and without the physiological range. He has also found a very marked effect of calcium ions, within the physiological range. They render strandin much less polar, and sodium, potassium, and magnesium compete with calcium in producing this effect. In parallel with this, Mr. Quarles is at present studying the effect of the presence or absence of peptide-strandin on the behaviour of the whole strandin mixture.

The group under Dr. Francis LeBaron has most actively pursued its study of the biochemistry of phosphatidopeptides and of the germane problems of fractionation of brain proteins. He has further established that the P in phosphatidopeptides is triphosphoinositide — only a negligible amount of the P in phosphatidopeptides remaining undefined. A continued study of the influence of convulsive agents on phosphatidopeptide metabolism in collaboration with Mr. B. S. S. Ramarao and Dr. George Hauser, has disproven earlier indications of a possible effect. Mr. R. Martenson has continued the study of the fractionation of white matter proteins and has succeeded in developing a practical method for the fractionation of the pH 7-insoluble fraction of viscous protein into three distinct subfractions. This work has also included a far-reaching survey of possible procedures of fractionation and has yielded first-class information on what can be used and what should be avoided. In a closely related study with Mr. E. Chivian, it has been established that convulsing increases the amount of viscous protein that can be extracted from rat brain. The analysis of the fractions from controls and from convulsed animals has suggested the possibility that a decrease in amide groups of proteins occurring during convulsions may well provide a clue to the reason for the observed difference in extractability of proteins. Finally, the work of distribution of phosphoinositides in brain tissue has been continued.

The group of Drs. Pierre Stoffyn and Anne Marie Stoffyn, to which has been added Dr. Malone, has continued its exciting work on the structure of cerebrosides and sulfatides from brain. In a thorough study of the relationship between these two groups of compounds, Drs. Stoffyn have succeeded in extracting total cerebrosides and total sulfatides in chromatographically pure form and have succeeded in showing that they have the same fatty acid patterns and identical sphingosine

bases thus incidentally demonstrating that sulfatides are indeed simple sulfate esters of natural cerebrosides. Dr. Malone has been able to diminish the possibility of C_6-linked sulfatides being present in brain. The anomeric configuration of carbon 1 of the galactose moiety of cerebrosides is under study, with preliminary results indicating that it appears to be a β linkage.

Dr. Hauser has successfully continued his studies on the biosynthesis of lipids and their constituents in brain and other tissues. He has studied the biosynthesis of free and lipid-bound inositol and phosphatide glycerol in tissue slices, the effect of the injection of 2-0-methylene myo-inositol into rats on the biosynthetic capabilities of brain and kidney slices, and the incorporation of radioactivity into cholesterol and phosphatide fatty acids from brain after injection of uniformly labeled glucose into young and adult rats. He has also continued his collaboration with Dr. Pierre Dreyfus on the effect of thiamine deficiency on the thiamine dependent enzyme pyruvic decarboxylase in several areas of the central nervous system and in other organs, and the results have been compared with data obtained on transketolase activity in the same tissue samples.

NEUROPATHOLOGICAL STUDIES

(This section of the report prepared by Dr. Alfred Pope)

The Research Laboratory's program in microchemistry and microchemical neuropathology has proceeded along both familiar and relatively novel lines.

The principles and techniques of quantitative histochemistry continue to be applied to selected problems in the biochemical architecture of human brain and pathological changes thereof. In this sphere, major attention is still being devoted to the chemoarchitectonics of the frontal isocortex, both normal and in the presence of pathological processes associated with the presenile dementias. During 1963, intracortical cytoarchitectonic distributions of total lipids (Dr. Helen Hess, Dr. Pope, and Miss Moniz), and of lipase activity (Dr. Pope), were determined in a series of autopsy specimens of normal and diseased cortex. This program has involved continued development and validation of methods of procedure and analysis. During 1963, an ultramicro fluorimetric method for the assay of sialic acid was completed (Dr. Hess and Miss Moniz).

A number of ancillary investigations on the microchemistry of the human nervous system, both normal and pathological, have been in progress as follows:

(1) An extensive study on the regional microchemistry of structural components in the human central nervous system has been completed (Dr. Ruth Landolt, Dr. Hess, and Miss Thalheimer). The concentrations of proteolipid and residue proteins, cerebrosides, gangliosides, RNA, and DNA have been determined in 12 selected nuclear and fiber tract regions of human brain and spinal cord, and the results correlated with the characteristic microscopic anatomical features of each.

(2) In collaboration with Dr. Ruth Geiger of Chicago, a series of 24 lyophilized tissue cultures grown from human cortex and subjacent white matter have been analyzed for proteolipid proteins, gangliosides and DNA (Dr. Soloway, Mr. Ramarao, Miss Moniz, and Dr. Hess). The results indicate that gangliosides are present primarily in cultures derived from gray matter and that proteolipids are particularly abundant in subcultures of white matter.

(3) Studies have continued on the microchemistry of brain tumors of the glioma group. During 1963, work on the nature of ATPase activity in both human and experimental mouse gliomas was completed (Mr. Schneider and Dr. Hess). The virtual absence of Na-K-ATPase activity in astrocytomas of differing grades of dedifferentiation was firmly established. However, it was shown that such ATPase activity is occasionally demonstrable in a latent form after prolonged storage at –12° C. Pilot studies on the microchemistry of structural elements (protein and lipid fractions) in gliomas have also been carried out (Mr. Ramarao and Dr. Soloway).

A significant new development has been a combined microchemical-ultrastructural investigation upon the outer segments of frog retinal roads. This has involved a collaborative effort between Drs. Robertson, Hess, and associates. It is predicated on the potentiality for obtaining these modified neural plasma membranes in a purified state, thus making possible correlative study of their molecular anatomy and metabolism in relation to their fuuction as specialized energy transducers.

An essential prerequisite for this approach has been to prepare rod outer segments (ROS) retaining their paracrystalline structure but free of all other histological components. Such isolation has been achieved

by the use of low speed centrifugation of freed ROS in a multilayered system of isotonic saline, sucrose, and dextran (Dr. Richard Lolley, Dr. Hess, and Miss Moniz). Biochemical reference data have been established for these purified ROS, and several lines of microchemical analyses have been initiated upon them including determination of phospholipid constituents (Dr. Charles Still) and estimation of nucleotides and metabolites in relation to the effects of light stimulation (Dr. Lolley).

BIOPHYSICAL STUDIES

(This section of report prepared by Dr. J. David Robertson)

The work carried out in the Biophysics section has been a continuation and elaboration of work previously begun. However, there have been certain major shifts of emphasis away from the study of sectioned material by electron microscopy. This has resulted from a conviction that this approach must be more closely supported by correlated studies by other methods giving independent information about unfixed material if the molecular architecture of unit membranes is to be understood. Accordingly, we have recently begun with Dr. Helen Hess a program of collaborative biophysical and biochemical studies of isolated retinal rod outer segments (ROS's). The general activities of the Biophysics section during 1963 were as follows:

(1) Biophysical studies of ROS's and related membrane structures (Dr. Robertson and Miss Lamborghini). Isolated ROS's fixed with $KMnO_4$ and fragmented ultrasonically have shown a mosaic pattern of apparent subunits 50-100Å in diameter. Similar material embedded and sectioned shows transverse striae running across the unit membranes at 50-100Å intervals. This is interpreted as representative of a phase change in the membrane lipids from a smectic to a micro-spherical state occurring during fixation because X-ray diffraction patterns of fresh ROS's in situ (the first known to have been obtained), while showing the first and second orders of a 320Å repeat period along the rod longitudinal axes have so far given no evidence of such periodic structure in the plane of the membranes.

Polarized light and electron microscope studies of ROS lamellae have revealed them to be very sensitive to environmental effects. The normal positive rod birefringence reverses to negativity in response to

slight damage or permanganate fixation. This may be due to the postulated lipid phase change. By electron microscopy ROS membranes are seen broken up into macro-vesicles after certain treatments.

New ultra-high vacuum procedures for metallic (Pt-carbon) replication have been worked out. The protein subunit helix in the surface of tobacco mosaic virus has been successfully displayed for the first time by this method. However, similar techniques applied to membranes have so far been disappointing.

(2) Further studies of synapses (Dr. Robertson, Miss Lamborghini, Mrs. Doughty). (a) Mueller cells of the goldfish medulla. These are large neurons somewhat like Mauthner cells except for a smaller size. They are, in fact, simply scaled down Mauthner cells and most of the findings reported in our papers on Mauthner cells have been duplicated.

(b) Crayfish lateral giant septal synapses (Dr. Robertson, Miss Lamborghini, Mrs. Doughty). The presumably electrical giant septal synapses in crayfish abdominal ganglia show a synaptic-membrane-complex only ~180-200Å thick due to a reduced synaptic cleft width of 40-50Å.

(c) Chick ciliary ganglia. The calyciform nerve endings in ciliary ganglia are being studied for these may transmit electrically.

(d) Studies of prawn synapses and myelin (Dr. Carlos Doggenweiler and Mr. Heuser). The giant fibers have a peculiar myelin sheath, both compact and loose, and its membranes are not spirally arranged. It contains many peculiar desmosome-like bands. The median-giant-to-motor synapse is analogous to the corresponding crayfish synapse, but the synaptic processes are reversed in polarity. The synaptic cleft is completely closed, suggesting electrical transmission.

(e) Studies of the vestibular nucleus in chick medulla (Dr. Raul Hinojosa). This work is too preliminary to report now.

(3) Studies of the effects of tri-ortho-cresyl-phosphate on chicken peripheral nerves (Dr. Bischoff). This work is also in preliminary stages.

(4) Studies of giant nerve fibers after treatment with snake venoms (Dr. Robertson, Dr. Rosenberg of Columbia University, Miss Lamborghini, Mrs. Doughty). Snake venoms cause the Schwann cells to break up into vesicles of various sizes. This presumably accounts for the increased accessibility of the axons to certain drugs that are ineffective in normal nerves.

(5) X-ray diffraction and electron microscope studies of a proteolipid (Dr. Robertson). Small-angle X-ray diffraction patterns have been obtained from a dried sample of proteolipid, showing a diffuse ring representing a randomly oriented repeating unit of ~51Å.

(6) Electron microscopy of Pectin striated muscle fibers (Dr. Robertson, Miss Lamborghini, Mrs. Doughty). Each individual myofibril of this interesting muscle seems to have its own surface membrane, mitochrondria, etc. The "A" band myofilaments are solid, measure ~225Å in diameter and are in hexagonal array with a center-to-center spacing of ~450Å. The "I" band filaments are irregular and <100Å in diameter. The secondary array of "A" band filaments, so prominent in most skeletal muscles, is arranged as rings of very small filaments encircling each primary filament.

J. FOLCH-PI, M.D.

Report of the Psychology Department

THE Psychology Department continued its major functions of psychological testing, research, teaching and psychotherapy. A total of 650 psychological tests were administered to 173 patients during the year.

Most of the testing is completed within a few weeks after the patient is admitted to the hospital and is a part of the overall clinical evaluation. Often patients are re-tested six months to one year later for purposes of re-evaluation and determination of the incidence and degree of improvement. Although not all newly admitted patients are referred to the Psychology Department, all patients under the age of 21 are tested.

Psychological testing has been particularly helpful in dealing with the unique problems of diagnosis and planning for the increasing number of adolescent patients. Plans are under way to make psychological testing a part of the regular procedure used to evaluate the new patients who are admitted directly to the Day Care Program. For the most part, the psychiatric staff refers patients for testing when there are questions concerning diagnosis, degree of pathology, brain damage and suicidal potential. Through the medium of the work-up conferences and follow up data on the patient's course in the hospital, it has been possible after testing to apply a research attitude to the psychological test data. Thus, we are always accumulating additional indications for the various types of pathology in order to achieve higher validity to our test interpretations.

Teaching activities include a course on the Theory and Application of Psychological Testing given to the residents; lectures to the medical students and nurses; and supervision in diagnostic testing of the graduate students in the Department of Social Relations at Harvard University who do part of their practicum training at McLean. Intensive supervision is offered to those members of our department who are at the Fellow status and have not yet completed their training for the doctor of philosophy degree. Dr. Robert Schnitzer has also been working with Dr. Alfred Stanton, Psychiatrist in Chief, and Dr. Norman Bell,

Chief, Social Science Department, toward the development of a research training program for post-doctoral sociologists and psychiatrists.

Dr. Stiver has continued her research interests in perception and has begun some investigations into the character structure of the psychopathic personality. Dr. Schnitzer is pursuing his interest in the self-image of psychotic patients, and Mr. Richard Erle concluded his investigation of the representation of abstract notions in a medium of visual imagery. In addition, Dr. Stiver continues as a research consultant on the staff of the James Jackson Putnam Children's Center.

We were sorry to lose Mr. Richard Erle who resigned from the Psychology Department to accept a position as Senior Psychologist on the staff of the Department of Psychiatry at Maimonides Hospital in New York. Mr. Scott Reinhardt, who is completing his work for a doctor of philosophy degree at Columbia University, joined our staff in September. He spent last year as a Research Psychologist at the Child Development Center in New York. In December, Dr. Michael Wogan will join our staff after receiving his doctor of philosophy degree from the University of North Carolina.

IRENE PIERCE STIVER, PH.D.

Report of the Activity Therapies Department

THE outstanding event in the Department this year has been the move into the Rehabilitation Center which was accomplished by the end of September with a minimum of disruption in patient activity.

The Activity Therapies Department is now housed in two areas. Recreational Therapy remains in the Gymnasium Building and will expand its program which was confined due to the move of activities from the East Occupational Therapy Building following a fire there in November, 1961. The Rehabilitation Center now accommodates all of the Occupational Therapy Activities — the Art Studio, Manual Arts, a photography room, the printing shop — the Patients' Library, and Music Therapy.

On April 15, 1963 a Director of Activity Therapies was appointed. The department continued to evaluate its programs as they relate to patient needs. Staffing remained a major concern with much turnover in all areas; 5 staff members terminated in Recreational Therapy and there were three replacements; 7 staff members terminated in Occupational Therapy and the Library, who were replaced by three new staff members. Most of these terminations were caused by illness, return to school, pregnancy and retirement.

The present staff is of high caliber and is the nucleus of an excellent adjunct to the treatment program at McLean. The meetings with the various clinical administrators have continued to provide the consistent communication necessary for efficient functioning of the Department. Wherever possible charge nurses on the halls have been included in these meetings.

In-service education continues, both through staff meetings and individual conferences with the Director, The staff has also attended regional conferences and institutes in their own specialties, such as occupational therapy and music therapy, and in national conferences, sharing with staff the wider thinking in the field.

Occupational Therapy: The daily census in the area has doubled. Although this achieves part of the goal set last year — that O.T. reach

a greater number of patients — it does not achieve its inherent purpose of being a treatment unit where specific rehabilitative needs are evaluated and met. The most effective means for combining these two aims are at the crux of the staff's efforts.

The need for additional, qualified staff remains a pressing problem, and the need for enlargement of the new facilities was evident almost immediately following occupancy. The best use of the facilities in the occupational therapy area will evolve through more coordinated plans for treatment with all members of the psychiatric team. Future plans also include more extensive hall programs when needed, establishment of an affiliate student program with the schools of occupational therapy in the Boston area, and a re-evaluation and intensification of the existing educational program for student nurses.

Recreational Therapy: Recreational Therapy has continued to direct its program toward individual and group activities in the various aspects of recreation. Trips to special events in the Greater Boston area included the Longwood tennis matches and the ice show at the Boston Garden. Community facilities were used for those patients who were interested in swimming, bowling and riding. New programs added were classes in charm and grooming, skiing, a play reading and play writing group, and a program in weight lifting.

Parties and dances were scheduled by staff and patients when interest and need of the patients developed. Several halls instituted regular recreation periods with hall staff accompanying patients to the area and participating in the program. A co-educational evening was popular and included softball, baseball and volleyball. Spring and Fall picnics, weekly beach trips during the summer months, Fourth of July events and weekly movies continued to be popular.

The Recreational Therapy section cooperated in the establishment of a physical education program as part of the high school program for the adolescent patients. As a result of the requirements for this program, some new equipment was added and the gymnasium redecorated. The patient work crew constructed a high jump and broad jump pit. All these improvements benefited the general patient population as well as the high school program.

Twenty patients held jobs in the area as receptionists, typists, maintenance workers, and recreation assistants. Four volunteers served in the area in various capacities — a modern dance instructor, programs

developed on the halls, particularly the geriatrics unit and as aides in the activity program.

Music Therapy: Miss Rachel A. Mason, a registered music therapist, joined the staff on October 15, 1962. By mid-August the music wing of the Rehabilitation Center was opened with three practice rooms and a classroom concert hall, and the music therapy program began to expand and develop. By the end of this fiscal year 60 patients were using the facilities available. Individual instruction and practice in singing, piano, guitar, drums, saxophone, trumpet, flute, clarinet, melodica and recorder had thus far been utilized. All types of music were used from the classics to jazz and folk music.

By the close of the fiscal year, plans were under way for patient organized record concerts using the magnificent stereo set, recorder groups, choral singing, music appreciation and classes in harmony as the need and the occasion arises.

Liaison with the New England Conservatory of Music has been established for referral of our more accomplished composers and musicians.

Even in this short time music therapy is proving to be a valuable addition to the total treatment program. It is perhaps the youngest of the activity therapies, but with proper use, an important one.

Patient's Library: The warm, pleasant atmosphere of the old library in the Administration Building has been sustained in the new library in the Rehabilitation Center. The patients' enthusiasm in assisting to relocate the library indicated their eagerness to settle into an environment of relaxation, study, work and creative endeavor.

The patients' weekly bulletin, *Around and About,* resumed its publication and served as an outlet for items of general interest such as artistic and literary products of the patients.

The library continues to be a favored spot for the volunteer-sponsored Art Lending Library.

During the year the library has provided many opportunities for patients' jobs ranging from cataloguing and classification of books to assisting the librarian at the desk and typing the weekly bulletin. The patients are appreciative of their study rooms in the stack area of the library that are used essentially for academic study.

The efforts of the department in the coming year will be geared to further develop the staff, the activity therapy program and the use of

the new and old facilities to their best advantage as part of the treatment of patients.

The activity therapy staff is particularly grateful to all the departments that cooperated throughout the year in the many "emergencies" that arose in the transition from the old facilities to the new building as well as the helpfulness in orienting the new staff members to the hospital itself.

ROSE FARKAS, M.S.S.

Report of the Social Science Department

SOCIAL scientists have been working in McLean Hospital long enough that they are in danger of becoming a fully accepted part of the local scene. It may be useful occasionally to recall that a social scientist is a person who has undergone extensive training in how to study and understand patterns of social behavior. Reared in the academic setting, the pursuit of understanding becomes an end in itself. In the setting of an organization devoted to rendering service, the social scientist is in a peculiar position. He must be involved, but must also remain outside; he must empathize with the professional views and ethics of others, but ultimately must follow his own professional standards. McLean Hospital has been outstanding in its ability to tolerate social scientists with their different ways of looking at life, with their own set of values of what is important, their own kind of "superego."

Since the social scientist is basically oriented to the academic world, it is not surprising that some staff members leave for academic settings. This year Drs. Richard Longabaugh and Anne Parsons have moved on to other settings. We are sorry to lose them, but take comfort in the knowledge that interests pursued at McLean will not be forsaken when affiliations change. Former staff members tend to move back into the medical world. Dr. Donald Kennedy has accepted a position at Tufts Medical School. Dr. Bernard Segal has been appointed Assistant Professor in the Sociology Department at Dartmouth College and in the Psychiatry Department of Dartmouth Medical School. Dr. Robert Rapoport, former head of the Department, has been appointed Research Professor at Northeastern University. He continues as consultant to the Department.

Research, the main occupation of the Department, continues apace. The work of Dr. Coser and Dr. Bell has continued. Dr. Melbin received a grant for a major demonstration project on programming nursing coverage.

The receipt by McLean Hospital of an NIMH General Research Support Grant made possible short study over the summer of the effects of

the change in location of the Day Care Center. Johnathan Wise served as capable assistant on this project.

The backbone of the Department, in terms of work, is a corps of hard-working research assistants and secretaries. This year the regular staff has been supplemented in significant ways by the volunteered services of several patients.

NORMAN W. BELL, PH.D.

Report of the Social Work Department

THE Social Work Department averaged 206 cases per month (20 of which were in excess of the cases for the previous year). Of this number about 60 were out-patients or their relatives. A total of 6,199 interviews were conducted with 516 patients and/or families — an increase of 266. There was a marked rise in the number of admission inquiries to the hospital handled by the pre-admission workers (approximately 1,620 over the previous year). With the increase of a case worker to the staff, it was possible for the workers to bring their dictation and other administrative routines up to date.

For the first time at McLean Hospital a group was formed for mothers of patients to discuss their mutual problems and concerns. Mrs. Hope MacDonald, Case Work Supervisor, met regularly with the group. It is hoped that more groups for relatives will be formed.

The entire staff participated in a survey study on the adolescent population in the hospital from September 1962 through May 1963. The questionnaire was developed by Dr. Katherine Spencer, Mrs. Mollie Grob, and Miss Golda Edinburg. Mrs. Grob is compiling the findings.

The turnover of case workers was limited, but two resignations during the year presented problems of reassignment of cases. Miss Judith Easton resigned in June 1963 and Miss Suzanne Batchelder in October 1963. They were replaced by Miss Nancy Simes and Mrs. Anne Wallens. In addition, the hospital agreed to participate with the French-American Atlantique Association, Inc. in sponsoring a French Exchange Student. Miss Agnes Garanjoud of Grenoble, France arrived in September 1963 for a year's program.

Social group work services were expanded to include four patient hall units. Some of the hall activities and discussions, including work projects and trips into the community, were performed in cooperation with other hall personnel. Social group workers also continued to focus on work with five small formed groups, such as Men's Work Group, College Girl's Club, Older Men's Club, Basketball Group and Young Adult Lounge. A total of 75 patients was reached through

these groups. The resignation of Mr. John Ansty in June and the lack of a replacement caused the withdrawal of service on the halls. It is hoped that when the staff complement is filled these activities will be resumed. Miss Louise Frey, Associate Professor of Group Work, Boston University School of Social Work, continued to act as a consultant to the social group work program.

GOLDA EDINBURG, M.S.S.S.

VOLUNTEER SERVICES

Community Volunteers have continued to provide needed patient activities and services through organized group projects, such as the Art Lending Library, the Gardening Club, hall activity groups, and a ballet group. Some of these groups have taken trips into the community to purchase materials for their projects, to visit exhibits, or dine together. Volunteers also gave individual assistance to hospital personnel in the various sections of the Activity Therapies Department, and on the halls as receptionists. A special program entitled, "Volunteer Vignettes," was given to the Auxiliary in February, focusing on the importance of volunteer orientation and supervision. During the year, professional staff assisted with orientation in-service training meetings for Volunteers and for Auxiliary members who are working in the hospital store.

In May, 36 volunteers whose services totalled over 4,000 hours were awarded certificates of appreciation at a tea given in their honor. Sixteen of these were students from Jackson and Wellesley Colleges. Mrs. Winthrop S. Jameson, Jr. from Belmont received a five-year pin, and is the second volunteer to receive this award.

The Volunteers are enjoying their new location in the Rehabilitation Center and have been refurbishing the two rooms allotted the department. The patients continue to depend on Volunteers to assist with their activities, but the size of the group has remained limited in order to offer adequate supervision.

ANN F. GROSS, M.S.W.

Report of the Nursing Department

The Nursing Service

THE years 1962 and 1963 brought a sharper focus upon the direction in which the nursing service department must concentrate in order to meet the recent changes in the Hospital which has changed in organization, grown in size and multiplied in its activities. It has become obvious that the growth of the Hospital has made obsolete many practices and procedures appropriate in the past. This has been true in nursing as in the other hospital departments.

The broad philosophy and objectives of the nursing department appear to meet the essential standard, but the implementation to meet these criteria obviously needs re-evaluation. Accordingly based upon certain direct nursing care observations and continuous study conferences in collaboration with the Clinical Nursing Consultant (newly appointed by the Director of the hospital in October) a goal has been reached by the nursing service administrators to work toward the implementation of an improved clinical program of the department. Ways and means discussed include improvement of line communications, provision of ways in which the growth of the professional nurse can be stimulated, provision of adequate clinical supervision to all nursing personnel, and ways in which the non-functional activities of the nursing personnel can be solved satisfactorily with members of other departments.

Activities shared with members of the medical staff, administrative staff, other departments and the faculty of the school include participation through representation on the hospital advisory committees, patient personnel and patient work conferences; participation of professional nurses as recorders in group therapy sessions; working with volunteers in the clinical areas; participation in future planning for a medical care program for adolescents; assisting in setting the therapeutic environment in Arlington School; evaluation of the role of the nursing personnel in relation to non-functional activities; evaluation for the need of oxygen therapy equipment for the geriatric services; continuation in the development of fire prevention plans of action in

patient areas; participation in planning and activation for fire drills; participation of nursing personnel in activity therapy; transference of day care patients to the rehabilitation building and at the same time evaluating nursing needs to meet the increase in the number of patients admitted to the unit; and participation in the visit of representatives from the National League for Nursing Accreditation Service during the evaluation of the educational program in the school of nursing.

Essential to sound organizational planning in the nursing service is the development of policy and administrative manuals. The formulation and preparation of the Charge Nurses Manual described in last year's annual report was completed and approved. The distribution of the manual however has not been accomplished since further revisions will be needed in the light of the proposed changes in the structure of the nursing department.

The Nursing Practice Committee has continued to work toward simplification, reasonableness and economy. Many procedures are still in the process of discussion and study. The most important accomplishment was the development and approval of a Nursing Notes Sheet correlating pertinent information on one sheet, thus making a clearer picture of the patients' progress to all professional personnel, particularly the medical staff.

The continuous evaluation of nursing care has been discussed and such techniques as ward conferences, nursing rounds, analysis of accident reports, patient and employee opinion polls have been helpful. Nursing service administrative, supervisory and head nurse personnel have had the opportunity for free communication through regular meetings. Decisions and recommendations have been forthcoming but development of a definite nursing care audit needs to be established.

The master staffing pattern was re-evaluated and changes planned for in accordance with anticipated needs for patient care for the coming year. During the year the patients were provided with an average of 6.1 nursing care hours per patient per day as compared to 5.9 hours the previous year. Student nurses provided approximately one hour per patient per day of the total nursing hours. The nursing complement providing direct patient care included 13 head nurses, 12 assistant head nurses, 51 staff nurses and 111 psychiatric aides. At the end of the fiscal year the following budgeted positions were unfilled: 3 supervisors and 12 psychiatric aides.

Opportunities for growth and education of nursing personnel have continued. Participation in college programs for both nurses and psychiatric aides was encouraged. During the year twenty-one nurses studied under the Graduate Registered Nurse Scholarship Funds at three local colleges and universities, and a total of 143 credits was earned. A Supervisor and a Head Nurse participated in a Nurse Leadership Program at Boston College sponsored by the New England Board of Higher Education and financed by the United States Public Health Service. Funds were made available to selected nurses to attend the National League for Nursing convention held in Atlantic City.

Recommendations for improvement of nursing services in 1963-64 are:

(1) that the clinical focus of nursing be studied and changes made to improve the professional care of the individual patient;
(2) that surveys on nursing salaries be conducted using spot check data collected from psychiatric hospitals in all geographical areas of the United States;
(3) that the budget for scholarship grants to graduate nurses employed at McLean be increased to $6,000 annually;
(4) that all nurses now receiving a three-week vacation be granted a four-week vacation after continuous service of five years; and
(5) that satisfactory library service for nursing be developed with other professional groups.

Members of the nusing staff join me in expression of their appreciation for the help and guidance given during the year by the Board of Trustees, the Medical Staff, the Administrative Staff and all the other hospital departments.

The School of Nursing

The School of Nursing was visited by representatives from the National League for Nursing Accreditation Service and was fully approved for the fourteenth consecutive year. Although this record is gratifying, the nursing profession at the McLean Hospital must continue to re-evaluate the program of the school. Plans continue to re-evaluate the role of the nurse in her position as a graduate of the diploma school; to encourage faculty members to continue their preparation for educational responsibilities and for their major areas

of specialization; to continue to develop objectives and review the curriculum for the three-year program of study; to implement a plan whereby instruction and experiences are offered concurrently throughout the program; and, to continue improvement of educational facilities, especially in relation to providing clinical conference rooms and adequate classroom facilities.

The Advisory Committee of the School of Nursing has continued to give wise counseling to the Director of the School. Recommendations were approved and plans for implementation were made to form a contract with the Peter Bent Brigham Hospital School of Nursing for an affiliation in psychiatric nursing, and an increase in tuition charges to McLean students as well as to students affiliating at McLean from the Massachusetts General Hospital, the Children's Hospital, and the Peter Bent Brigham Hospital.

There were three changes in the membership of the committee. Mrs. John D. Aikenhead of Belmont was appointed to replace Mrs. Thomas Worcester, Mrs. Robert E. Nelson to replace Mrs. Bancroft Beatley and Mrs. Richard D. Bush to replace Mrs. Claude E. Welch. All appointees were community representatives.

The Coordinating Discussion Group of the McLean Hospital School of Nursing and the Nursing Service Department continued to discuss problems between school and service. Recommendations made to the Director of the School have resulted in the approval of new guidelines for student assignments in the clinical area, revision of master rotation schedules for basic affiliates and McLean senior students, and revision of the instruction and assignment policies for McLean senior students. Clarifications were also made regarding the role of the instructors in psychiatric nusing and also the responsibilities of the head nurse in relation to students.

McLean student basic costs for education were again studied and tuition increases to students were approved by the trustees of the hospital. The total fees charged were increased from $400 to $625 per student for those who entered in September 1962 and from $650 to $875 per student for those who entered in September 1963. The increased tuition now meets the $75 charge per student for three 12 week affiliation blocks at Massachusetts General Hospital, The Children's and the Boston Lying-In Hospitals.

Costs for students affiliating in psychiatric nursing at McLean Hospi-

tal were also reviewed and tuition charges to affiliating hospitals were approved by the trustees of the hospital. The $75 per student rate for the 12 week affiliation block was agreed upon by the Massachusetts General Hospital and The Children's Hospital. The rate for the 12 week affiliation block for the Peter Bent Brigham Hospital students was set at $75 per student for tuition and $55 per student for a board and room charge.

The school budget for the coming year was prepared by the Director of the School of Nursing. Ways to reduce direct costs were studied and some significant savings were realized. There will be a continuing study of ways to reduce the cost of the educational program and of ways to increase the income of the school thus reaching toward the goal of lessening the financial burden of the patient.

The complement of the faculty was increased by one full - time member. Plans for an increase in the number of affiliating students from the Peter Bent Brigham Hospital School of Nursing by not less than 40 nor more than 48 students annually was approved for the basic course in psychiatric nursing thus indicating the need of an additional instructor in this area. New appointments to the faculty including the additional faculty member were: Miss Alice F. Behymer, R.N., B.S., M.A., D.Ed. as Coordinator of Psychiatric Nursing Programs, who was replaced during the year by Mrs. Elizabeth H. Selby, R.N., M.S.; Mrs. Joan C. Costin, R.N., B.S. as Instructor in Psychiatric Nursing, who was replaced during the year by Miss Janet H. Smith, R.N., B.S.; Mrs. Mary Anne Noble, R.N., M.S., as Instructor in Psychiatric Nursing; Miss Carolyn V. Billings as Assistant Clinical Instructor Psychiatric Nursing; Mrs. Flora S. McLaughlin, R.N., B.S. in Ed. as Instructor in Medical Surgical Nursing; Miss Phyllis M. Warden, R.N., B.S. in N.Ed. as Assistant Instructor in Nursing; and, Miss Evelyn J. Kraybill, R.N. as Assistant Instructor in Sciences. One instructor in psychiatric nursing, Mr. Herbert W. Mallinson, R.N. was granted leave of absence to attend college full-time to qualify for a B.S. in nursing. Three part-time faculty appointments were made: Paul M. Howard, M.D. as Advisor to the Guidance and Evaluation Committee faculty members replacing Beatrice Kershaw, M.D.; Mr. Eugene V. McAuliffe, Ed.M. as Instructor in Communication Skills replacing Mr. Vincent F. Conroy; and, Mr. Scott Reinhardt, M.A. as Instructor in Psychology replacing Miss Mildred E. Swinson.

In order to improve their professional preparation, five faculty members have attended college on a part-time basis. Four members utilized the graduate nurse scholarship offered by the hospital. Faculty members have attended and participated in meetings, workshops, institutes and conventions sponsored by national, regional, state and local professional nursing organizations throughout the year, bringing back to the group new methods and ideas for specific and general use in the organization.

Thirty-two of 160 applicants were accepted in 1962-63; by comparison 26 of 178 were accepted 1961-62. It is significant that applicants better prepared scholastically and otherwise are interested in the basic school of nursing at McLean because of its psychiatric nursing curriculum. Over five hundred school bulletins were mailed as a result of inquiries. Activities of the school were published in the *McLean Newsletter* and various newspapers in Metropolitan Boston. A public Investiture Service was held in the Samuel Eliot Memorial Chapel in the form of a Nightingale Service, at which Mr. Robert F. Mahoney, Associate Chief, Nursing Service for Education, Veteran's Administration Hospital, Boston, was the speaker and where the Alumni Association scholarship for a first year student was awarded to Mr. Donald S. Rennie. The annual graduation commencement exercises included the participation of Francis de Marneffe, M.D., Director, McLean Hospital as speaker. The central theme focused upon the subject "Initiative and Commitment in Professional Nursing." The class gift, presented at the exercises was a sum of money to purchase an accession to the school of nursing library. The Wetherill Awards for recognition of development and exercise of the spirit of thoughtfulness for others were awarded to Mrs. Virginia C. Sullivan and Mr. Gordon S. Curtis, Jr. The McLean Hospital Nurses Alumni Educational Scholarship Award was given to Mr. Bruce R. Hartshorn a member of the graduating class, and two Annabella MacCrae Scholarship Awards went to two undergraduate students, Mr. Gerald F. Ellsworth and Mr. Donald S. Rennie.

Under the leadership of Gordon S. Curtis, Jr., elected President of the Student Association of McLean Hospital School of Nursing, the members were busy throughout the year laying a firm foundation for increased performance, communications and benefits for their individual members and for their association. Mr. Curtis was elected Chairman of the Northeastern Interstate Conference Committee of

the Student Nurse Association of Massachusetts and, as a result, the conference meeting was held at McLean Hospital with the McLean student association playing host to the attending member delegates. Active participation in the district and state levels of the National Student Nurse Association resulted in a total of five McLean students holding some of the higher offices on both levels. Four delegates attended the National Student Nurses Association Convention in Atlantic City sponsored by funds raised by the McLean student organization.

Specific and important recommendations to the officers of the hospital are as follows:

1) that the number of psychiatric nursing instructors be increased by one position to reduce the student number ratio per instructor according to accepted standards;
2) that salary scales for faculty members be raised to help recruit better qualified applicants;
3) that monies be allocated for the specific purpose of In-Service Education to provide for the growth of individual faculty members;
4) that suitable facilities for the care of ill students be provided.

The faculty join me in extending appreciation to all those who contributed in the operation of the School of Nursing this past year and look forward to a continuation of similar relationships in the coming year.

MARGARET C. TIBBETTS, R.N.,
Director of the School of Nursing and Nursing Service

McLean Hospital

Report of the School of Nursing and Nursing Service

NURSING SERVICE PERSONNEL, YEAR ENDING SEPTEMBER 29, 1963

	Women	Men	1962-63
Average No. Graduates	64	22	86
Average No. Graduates—*Part-time	4.7	2.4	7.1
Average No. Licensed Practical Nurses	2.8	0	2.8
Average No. Accepted Students	12	27	39
Average No. Preclinical Students	9	15	24
Total	92.5	66.4	158.9
Average No. Psychiatric Aides	47	57	104
Average No. Psychiatric Aides—*Part-time	3.2	6.2	9.4
Total	50.2	63.2	113.4
Total No. Preclinical Students Admitted	13	19	32
Preclinical Students Dropped or Resigned	4	0	4
Accepted Students Dropped or Resigned	0	1	1
Total Dropped or Resigned	4	1	5
Students Graduated	5	13	18
Student Veterans Enrolled—P.L. 550 and 894	0	2	2

*Expressed in equivalent of full time

NURSING SERVICE PERSONNEL, SEPTEMBER 29, 1963

	Women	Men	Total
Graduate Nurses			
Full-time	56	28	84
Part-time	3.1	1.6	4.7
Total	59.1	29.6	88.7
Licensed Practical Nurses	3	0	3
McLean Hospital and Affiliating Student Nurses			
Accepted Students	19	25	44
Preclinical Students	13	19	32
Affiliating Students from Other Schools	48	0	48
Total	80	44	124
Total Nursing Personnel	142.1	73.6	215.7
Psychiatric Aides			
Full-time	44	47	91
Part-time	2.9	2.9	5.8
Total	46.9	49.9	96.8
McLean Students on Affiliation			
Massachusetts General Hospital	16	25	41
The Children's Hospital	0	0	0
Boston Lying-In Hospital	0	0	0
Total	16	25	41
Affiliating Students from Other Schools Who Completed Course 1962-1963:			
Massachusetts General Hospital	103	0	103
The Children's Hospital	38	0	38
M.G.H. Radcliffe College Program	4	0	4
Simmons College School of Nursing	16	0	16
Graduates	9	0	9
Total	170	0	170

Report of the McLean Hospital Auxiliary

THE McLean Hospital Auxiliary resumed activities in the fall with a broader base on which to continue building a purposeful organization. Faithful and dedicated guidance of Auxiliary affairs was given by an enlarged board of directors and its officers.

As work on the new Rehabilitation Center progressed, the Auxiliary anticipated its completion eagerly as its future is to be closely allied with the Center. It was almost certain that the new, attractive hospital store would interest volunteers to a greater extent than the former store. This would be an important and positive factor toward its future management by the Auxiliary. Plans are under way for a fund raising event — an open house, luncheon, and tours — which would have the Rehabilitation Center as its setting.

The Auxiliary was host to the Greater Boston Region of Hospital Auxiliaries of the Massachusetts Hospital Association, held at McLean at which approximately fifty presidents of general hospital auxiliaries attended. This was the first meeting held by this group at a mental hospital.

Ninety-three new members were welcomed at neighborhood teas and coffees in Belmont, Newton, Lexington and Cambridge, which were held primarily for Auxiliary members and guests. There has been a steady increase in membership from 119 to 179 members, including 2 new life members. Membership folders were distributed listing the names, addresses and telephone numbers of auxilians which carried the suggestion "How You Can Help." The Auxiliary Presidents of the Massachusetts Mental Health Center Auxiliary have granted each other reciprocal continuing memberships. This should be a beneficial arrangement in the years to come.

The Program Committee has functioned wisely and well and, in agreement with the board of directors, has offered programs of high caliber aiming toward educational material concerning mental health, the treatment of mental illness and general knowledge of McLean Hospital. The February membership meeting featured "Volunteer Vignettes," three skits depicting the role of the Volunteer at McLean,

under the direction of Mrs. Charles A. Coolidge, chairman of volunteers, Mrs. Irwin C. Gross, Director of Volunteers, and Mrs. James Haycox of our Program Committee.

The Volunteer Program representatives, Mrs. Morris F. Whorf of our board, and Mrs. Coolidge, have cooperated with many aspects of the Auxiliary's activities. For its gracious and constructive assistance, the Auxiliary is deeply grateful. During the year three tours of the Hospital were arranged by Mrs. Alfred H. Stanton, Tour Chairman. Hospitality has been served graciously and tastefully by Mrs. Frederick E. Markus and her committee.

The Hospital Store was closed in the fall. At that time Mrs. Volta Hall, personnel chairman, channelled interested volunteers to the orientation courses set up and conducted by the Volunteer Department. The Store reopened in January with Mrs. Paul Howard as chairman. Under her supervision and that of the new hospital manager of the Store, volunteers were trained and are assisting five afternoons a week. Bringing the community into the hospital, one of the Auxiliary's main objectives, became more apparent in the early fall after the Store was moved into the Rehabilitation Center. Then a fair number of new members volunteered. Hopefully, with a continued substantial increase in the number of workers giving service here, the Auxiliary will be in the desirable position of assuming the management of the Store and will probably do so sometime next year.

Early in 1963 intensive planning was instigated for the Open House, the Auxiliary's major fund raising event to take place in the spring. When the opening date of the Center was postponed, the board of directors advanced the Open House date to October 22. Committees were organized for the purpose of raising funds to be donated to the proposed Out-Patient Psychiatric Clinic at McLean.

The Community Projects Committee of the Junior League of Boston, Inc. had become interested in a joint project of renovating the Employee's Lounge. The Junior League contributed $200 toward this project which the Auxiliary matched with another $200. With the proceeds of this project and with hospital labor and supervision, the room was repaired, replastered and repainted, a new Vinyl floor was laid, and new light fixtures were hung. Later the hospital provided new curtains and furniture. Mrs. Haycox acted as liaison between the Auxiliary and the hospital on this project. The Junior League is cur-

rently exhibiting a poster constructed by Auxiliary members which displays the contrast in Polaroid color photos of "before" and "after".

The Auxiliary's interest in the nursing scholarships has been maintained by Mrs. Howard, chairman. Miss Margaret C. Tibbetts, Director, McLean Hospital School of Nursing and Nursing Service, has reported the progress of the nursing scholarships.

The Annual Meeting and Strawberry Festival were held on May 14 under the chairmanship of Mrs. Howard, Mrs. Haycox and Mrs. Coolidge. A profit of $150 was realized from the sale of aprons, chances on several articles, plants contributed by the patient-volunteer Greenhouse Group, and the delicious fresh strawberry shortcake and coffee. Patients were made welcome and seemed to enjoy their participation in this annual spring program. Dr. Stephen L. Washburn, psychiatrist in charge of the Day Care Center, was the speaker.

McLean Hospital has been represented by Auxiliary delegates at all meetings of the Greater Boston Council of Hospital Auxiliaries, Massachusetts Hospital Association; The New England Hospital Assembly; and the Coordinating Committee Meetings of Service Groups of the Massachusetts General Hospital. It has been a privilege to be a part of these groups.

Mrs. John D. Aikenhead, Chairman of Public Relations, and Mrs. Laurence S. Foster, Chairman of Special Publicity, covered publicity for the Auxiliary throughout the year. Their efforts may be seen in the Auxiliary Scrapbook showing 40 newspaper clippings in 12 different newspapers. They have given to the public a very fine interpretation of McLean Hospital and Auxiliary activities. Mrs. Aikenhead also has submitted Auxiliary News and names of new members for publication in the *McLean Newsletter.*

In September 1963 the Treasurer's Report showed a balance of $2,226.48. This balance includes a Life Member Account in the Provident Institution for Savings of $787.81.

Gifts to the hospital include books and magazines to the Patient's Library and the Patient's School; 1 used refrigerator to the Young Adult Lounge; Day Care Center, $100; Lucile Pitcher Award, $50; Tuition Aid, $50; payment on 3-year nursing scholarship, $350; Employee's Lounge, $200; Maps for Patient School, $50; Parties on halls, $40; Cooking supplies for East House, $15.

Plans for the coming year include an Open House at the Rehabilita-

tion Center, a tea for new members, a mid-winter membership meeting, a Careers' Day, and the Annual Meeting and Strawberry Festival. The chairman of the Finance Committee, Mrs. Arthur T. Ippen, and the incoming board of directors have evaluated the short past of the Auxiliary and are looking to the future. Evaluation results would indicate that in order to fulfill its desired service to the hospital, it is essential that membership be increased, thus promoting the amount of dues and hopefully gaining new members who are able to be active and desirous of participating in committee work.

The board of directors is deeply appreciative to Dr. Francis de Marneffe for his continued guidance, and is grateful to the many facets of the Hospital Administration, the Medical Staff, the Volunteer Department, Nursing Service, Social Work, Activity Therapies, Young Adult Program, and others for their willing help whenever it has been needed so that the McLean Hospital Auxiliary has been able to broaden its base of service within the Hospital and the community.

For the outstanding support of the board of directors of the McLean Hospital Auxiliary, the President is most sincerely thankful.

ELIZABETH MCC. SIMONDS
(Mrs. George H., Jr.)
President

Directory

MEMBERS OF HOSPITAL STAFF, ALUMNI, AND PAST RESIDENTS

Names in large type indicate present Members of the Hospital Staff.

Letters in small type, following the names, indicate the special work of individuals:—

a.: assistant
admin.: administrative; administrator
an.: anesthetist
anthropol.: anthropologist
assoc.: associate
attend.: attending
b.: bacteriologist
biochem.: biochemist
biol.: biologist
biophys.: biophysicist
c.: chief of service
c.r.p.: chief resident physician
c.r.s.: chief resident surgeon
cardiol.: cardiologist
chem.: chemist
cons.: consultant; consulting
d.: dermatologist
dir.: director
dn. s.: dental surgeon
e.: engineer
exec. a.: executive assistant
exec. o.: executive officer
gen. dir.: general director
hon. p.: honorary physician
hon. s.: honorary surgeon
h.p.: house physician
h.s.: house surgeon
immunol.: immunologist
l.: laryngologist
n.: neurologist
neurophysiol.: neurophysiologist
n.p.: neuropathologist
n.s.: neurosurgeon
obst.: obstetrician
oph.: ophthalmologist
oral s.: oral surgeon
otol.: otologist
otolar.: otolaryngologist
p.: physician
path.: pathologist
pediat.: pediatrician
pharm.: pharmacologist
physiol.: physiologist
prin.: principal
psychiat.: psychiatrist
psychol.: psychologist
r.: radiologist
res. a.: research assistant
res. assoc.: research associate
r.p.: resident physician
r. psychol.: resident psychologist
r.s.: resident surgeon
s.: surgeon
sc.res.a.: scientific research assistant
sc.res.assoc.: scientific research associate
soc.: social
sociol.: sociologist
soc. sc.: social scientist
supt.: superintendent
u.: urologist
virol.: virologist

Italics indicate to what service of the Hospital the individual belongs:—

An.: Anesthesia
Anat.: Anatomy
B.: Bacteriology
Bd. of Cons.: Board of Consultation
Biochem.: Biochemistry
Biochem. Res.: Biochemical Research
Biol.: Biology
Biolog.: Biological
Biomechan.: Biomechanics
Biophys.: Biophysics
Biophys. Res.: Biophysical Research
B.M.: Baker Memorial
C.: Children's Service
Cardiol.: Cardiology
Chem.: Chemistry
Clin. Physiol.: Clinical Physiology
Clin. Serv.: Clinical Services
C.M.: Children's Medical

Contag. Dis.: Contagious Diseases
D.: Dermatology
Dn.M.: Dental Medicine
Dn.: Dentistry
E.M.: East Medical
E.S.: East Surgical
Ed.: Education
Gyn.: Gynecology
Immunol.: Immunology
Int. M.:Internal Medicine
L.: Laryngology
M.: Medicine
(*McL.*): McLean Hospital
M.G.H. Clin.: M.G.H. Clinics
N.: Neurology
Neurophysiol.: Neurophysiology
N.P.: Neuropathology
N.S.: Neurosurgery
Nurs. Serv.: Nursing Service
Obst.: Obstetrics
O.P.D.: Out-Patient Department
Oph.: Ophthalmology; Ophthalmic
Or.: Orthopedics
Otol.: Otology
Otolar.: Otolaryngology
Path.: Pathology
P.H.: Phillips House
Pediat.: Pediatrics
Pharm.: Pharmacology
Phys. M.: Physical Medicine
Physiol.: Physiology
Prev. M.: Preventive Medicine
Psychiat.: Psychiatry
Psychol.: Psychology
R.: Radiology
Res.: Research
S.: General Surgical Services
Sc. Res.: Scientific Research
S.M.: South Medical
S.N.: School of Nursing
Soc. Anthropol.: Social Anthropology
Soc. Sc.: Social Sciences
Soc. Serv.: Social Service
S.S.: South Surgical
Syph.: Syphilology
T. Dis.: Tropical Diseases
Thd. S.: Third Surgical
T.M.: Tropical Medicine
Traum. S.: Traumatic Surgery
U.: Urology
W.M.: West Medical
W.S.: West Surgical

Supplementary list of abbreviations frequently used in this Directory:—
clin.: clinical
H.M.S.: Harvard Medical School
Inst.: Institute
j.: junior
Mass. E. & E. Inf.: Massachusetts Eye and Ear Infirmary
M.G.H.: Massachusetts General Hospital
M.I.T.: Massachusetts Institute of Technology
res.: research
R.N.: Registered Nurse
sc.: scientific
sr.: senior
v.: visiting
Vet. Adm. Hosp.: Veterans Administration Hospital

Addresses are in Boston unless stated to be elsewhere, and are in Massachusetts when no State is indicated.

An asterisk preceding a name indicates Government Service and is not listed in the States and Cities section of this Directory.

AARONSON, L. D., a. *D.*
166 Wheeler Ave., Cranston, R. I.
ABBOTT, J. A., *Bd. of Cons.;* a.r.p. *Psychiat.* 1935 Zero Emerson Pl.
Abbott, L. C., *Or.* 1916
Univ. of California Hosp., San Francisco, Calif.
ABBOTT, W. M., a.r.s. (*S.* 1962) M. G. H.
Abi-Torbey, K., r.s. *U.* 1962
Immeuble Tabet, rue Abdel Wahab el Inglizi, Beirut, Lebanon
Abrahamian, H. A., a.r.p. *An.* 1956
Grace-New Haven Community Hosp., New Haven, Conn.
Abramowicz, M., a.r.p. *C.* 1962
18 Ware, Cambridge

Acheson, G. H., *W.M.* 1939
Univ. of Cincinnati Coll. of Med., Cincinnati, Ohio

ACKERMAN, I. P., a.p. (*M.* 1951); r.p. 1955 Zero Emerson Pl.

Ackroyd, F. W. a.r.s. 1963
Hawkmoor Chest Hosp., Devon, England

ADAMS, F. D., hon. p. (*W.M.* 1918)
226 Marlborough

Adams, H. D., *E.S.* 1932; r.s. *E.S.* 1934 Lahey Clinic

ADAMS, JOHN, Jr., *Bd. of Cons.*
704 Huntington Ave.

Adams, John E., a.r.p. *Path.* 1962
3924 Beech Ave., Baltimore, Md.

Adams, Ralph H., *W.S.* 1935; r.s. *E.S.* 1939 Huggins Hosp., Wolfeboro, N. H.

Adams, Raymond A., r.p. *N.* 1951
Med. Coll. of Virginia, Richmond, Va.

ADAMS, RAYMOND D., c. *N.* and n.p.; r.p. *N.* 1939 M. G. H.

Adamson, G. L., r.p. *N.* 1930
Winnipeg Clinic, Winnipeg, Manitoba, Canada

ADELSON, W. J., a. *Pediat.*
Sudbury Med. Center, Boston Post Rd., S. Sudbury

ADLER, M. H., attend. psychiat. (*McL.*) 130 Washington, Newton

Adler, S., sr.r.s. *Or.* 1959
4105 Silver St., S.E., Albuquerque, N. M.

AESCHLIMAN, BARBARA L., a. attend. psychiat. (*McL.*)
McLean Hosp., Belmont

Agranat, B. J., *Dn.M.* 1963
164 Longwood Ave.

Ahnlund, N. W., r.s. *Or.* 1943
241 E. Santa Clara, San Jose, Calif.

AISENBERG, A. C., a.p. M. G. H.

ALBERT, J., clin. assoc. *D.;* r.p. *D.* 1960 95 Lincoln, Framingham

Albright, E. C., *W.M.* 1942
University Hosp., Madison, Wis.

ALBRIGHT, F., *Bd. of Cons.* (*W.M.* 1926) M. G. H.

Albuquerque, P. F., r.s. *U.* 1944
rua Assembléia 51, Rio de Janeiro, Brasil

Alexander, W. H., *W.S.* 1922 and *Thd.S.* 1923
Commercial National Bank Bldg., Iron Mountain, Mich.

ALLEN, D. W., a. *M.* (*M.* 1955); a.r.p. 1956 M. G. H.

ALLEN, H. F., assoc.s. *Oph.* (*W.S.* 1943) 200 Beacon

Allison, C. R., *W.M.* 1938; a.r.p. 1940 15 Prince, Rochester, N. Y.

Alper, J. M., *E.M.* 1935
1185 Park Ave., New York, N. Y.

Alpers, D. H., *M.* 1961; a.r.p. 1962
National Inst. of Health, Bethesda, Md.

ALPERT, D. R., a.s. *Oph.*
1101 Beacon, Brookline

Alston, E. F., *Path.* 1944; a.r.p. *Path.* 1945 2305 Van Ness Ave., San Francisco, Calif.

Alt, R. E., *W.S.* 1933
1 Monument Sq., Beverly

ALTSCHULE, M. D., dir. *Int. M.* and *Res. Clin. Physiol.* (*McL.*)
McLean Hosp., Belmont

AMATI, JACQUELINE M., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

AMES, A., III, a. to gen. dir. *Res. and Ed.;* assoc. biochem. *N.S.* M. G. H.

Amick, A. F., *M.* 1957; a.r.p. 1958
126 9th Ave., Worthington, Minn.

Andersen, E. W., a.r.p. *An.* 1948
Neils Andersens Vej 76, Hellerup, Denmark

ANDERSON, E. E., clin. assoc. *C.;* a.r.p. *C.M.* 1960 84 Ocean Ave., Bass River

Anderson, Erna G., r.p. *C.M.* 1943
Med. Dept., Eastman Kodak Co., 1669 Lake Ave., Rochester, N. Y.

Anderson, H. C., *Path.* 1959
State Univ. of New York, Downstate Medical Center, 250 Clarkson Ave., Brooklyn, N. Y.

Anderson, R. L., *Or.* 1927
1207 Upper Ridgeway Rd., Charleston, W. Va.

Andrew, N. W., r.p. *An.* 1956
362 Marlborough

ANGELINI, H. D., a.s. *Otolar.*
3 Seaward Rd., Wellesley Hills

ANGLEY, J. C., a.p.
School, Bryantville

ANNINO, D. J., a. *Pediat.*
175 Washington, Winchester

Anthonisen, Margaret R., r.p. *Psychiat.* (*McL.*) 1934
Mary Hitchcock Memorial Hosp., Hanover, N. H.

Anthonisen, N. L., r.p. *Psychiat.* (*McL.*) 1932 Vet. Adm. Hosp., White River Junction, Vt.

APOSTOLIDES, A.A., a. physicist *R.* M. G. H.

Appel, S. H., *M.* 1961
Duke Univ. Med. Center, Durham, N. C.

Aranas, A. L., r.p. *Psychiat.* (*McL.*) 1961 Queen Mary Vet. Hosp., Montreal, Canada

ARNASON, B. G. W., a. *N.*; a.r.p *N.* 1959 M.G.H.

ARNDT, K. A., a.r.p. *D.* M. G. H.

Arnstein, A. R., *M.* 1956; a.r.p. 1957
Henry Ford Hosp., Detroit, Mich.

ARONOW, S., assoc. applied physicist *M.* M. G. H.

ARONSON, J. A., a. psychiat. M.G.H.

Arrowood, Julia G., r.p. *An.* 1936
Harlan Appalachian Regional Hosp., Harlan, Ky.

Arthur, R. J., *C.M.* 1952

*Arthur, R. J., *C.M.* 1952
U.S. Naval Hosp., San Diego, Calif.

Arzimanoglu, A. A., a.r.s. *Or.* 1952
1 Neofytoy Vamva, Athens, Greece

Asbury, A. K., *M.* 1959 a.r.p. 1960: a.r.p. *Path.* 1962; r.p. *N.* 1963 M. G. H.

Ash, H. L., *Dn.* 1960; r.s. *Dn. M.* 1962 29 Lincoln, Framingham

ASHWORTH, M. A., a.r.s. *Or.* M. G. H.

Aster, R. H., *M.* 1958; a.r.p. 1959
Boston City Hosp.

Atherton, L. D., r.s. *U.* 1952
321 W. Broadway, Louisville, Ky.

ATKINS, L., a. path.; r.p. *Path.* 1955 M. G. H.

ATKINSON, A. J., Jr., *M.* M. G. H.

Atsatt, R. F., *Or.* 1926
88C Thacher Rd., Ojai, Calif.

AUB, J. C., hon. p. (*E.M.* 1915); h.p. *E.M.* 1917 M.G.H.

AUFRANC, O. E., v.s. *Or.* (*Or.* 1938); r.s. *Or.* 1939 266 Beacon

AULT, L. L., a.r.s. *Or.* M. G. H.

AUSTEN, K. F., a.p. (*M.* 1955); c.r.p. 1961 M. G. H.

AUSTEN, W. G., a.s. (*S.* 1956); r.s. 1960 M. G. H.

AUSTIN, R. C., clin. assoc. *S.* (*S.* 1951); r.s. 1956
Concord Med. Center, Concord; M. G. H.

Averill, J. H., *M.* 1947
264 Elm, Northampton

Ayers, W. B., *W.S.* 1943
1554 Northern Blvd., Manhasset, Long Island, N. Y.

Ayres, S., Jr., *W.M.* 1920
2007 Wilshire Blvd., Los Angeles, Calif.

BACKMAN, J. H., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Bacon, W. B., a.r.p. *Path.* 1951
S. Hamilton

Badal, D. W., r.p. *Psychiat.* 1942
11328 Euclid Ave., Cleveland, Ohio

BADDOCK, S. S., a.r.p. *Path.* (*Path.* 1963) M. G. H.

BADEN, H. P.; a. *D.*; a.r.p. *D.* 1960 M. G. H.

BADGER, T. L., *Bd. of Cons.* (*E.M.* 1928) 264 Beacon

Bagg, E. P., Jr., *E.M.* 1913
207 Elm, Holyoke

Bailey, D. W., *C.M.* 1959
River, Norwell

BAILEY, N. E., *Dn. M.* M. G. H.

Bakay, L., sr.r.s. *N.S.* 1951
Edward J. Meyer Memorial Hosp., Buffalo, N. Y.

*Baker, Dudley M., sr.r.s. *Or.* 1962
U.S. Naval Hosp., San Diego, Calif.

BAKER, E. P., Jr., a.r.s. *N.S.* M. G. H.

BAKER, G. P., Jr., a. *M.* (*M.* 1958); r.p. 1961 M. G. H.

BAKER, M. P., p. (*E.M.* 1930) 262 Beacon

Baker, R. L., r.p. *N.* 1943
1020 S.W. Taylor, Portland, Oreg.

BAKER, WILLIAM H., assoc. p. M. G. H.

Baker, William J., *W.S.* 1943
724 Main, Laconia, N. H.

BALBONI, G. M., hon. p.
78 Mount Vernon

BALBONI, V. G., a.p. (*W.M.* 1942) M. G. H.

BALCH, F. G., Jr., *Bd. of Cons.* (*E.S.* 1925) 1180 Beacon, Brookline

BALER, L. A., a. psychol.
692 Huntington Ave.

*Not in States and Cities section of this Directory

Balfour, D. C., Jr., *E.M.* 1943
Las Encinas Hosp., Pasadena, Calif.
Balius, E. F., a.r.p. *An.* 1963
14911 Linden Ave. N., Seattle, Wash.
Ball, R. E., r.p. *Psychiat.* (*McL.*) 1960
Toronto Psychiatric Hosp., Toronto, Canada
BALLANTINE, H. T., Jr., v.n.s. (*W.S.* 1939); a.r.s. *W.S.* 1941 and *N.S.* 1941 M. G. H.
Ballard, F. B., a.r.p. 1958
Med. Arts Bldg., Chattanooga, Tenn.
Bally, P. R., a.r.p. 1956
Medizinische Universitätsklinik, Kantonsspital, Zürich, Switzerland
BALOGH, K., a. *Path.*; dir. *Otolar. Path.* (*E. & E.*) Mass. E. & E. Inf.
Bandeian, Alice M., *An.* 1943; a.r.p. *An.* 1944 210 Pine, Holyoke
Bandler, B., r.p. *Psychiat.* 1941
Boston Univ.-Mass. Memorial Hosp. Med. Center
Banker, Betty Q., a.r.p. *N.P.* 1954
14516 Larchmere Blvd., Shaker Hts., Ohio
Banks, H. H., a.r.s. *Or.* 1952
Peter Bent Brigham Hosp.
Banks, R., Jr., *E.S.* 1943
290 Enota Dr., N. E., Gainesville, Ga.
BARBOUR, JOSEPHINE C., c. *Soc. Serv.* M. G. H.
Baringer, J. R., *M.* 1960; a.r.p. 1961; a.r.p. *N.* 1962 M. G. H.
BARKER, R. H., clin. assoc. *Obst.* (*W.S.* 1937) 1101 Beacon, Brookline
Barlow, John F., r.p. *Path.* 1963
1545 Cain Rd., Fayetteville, N. C.
BARLOW, JOHN S., neurophysiol. *N.* M. G. H.
Barlow, Joseph J., r.p. 1955
83 Hammondswood Rd., Chestnut Hill
BARNES, ANN R., a.r.s. (*S.* 1963) M. G. H.
BARNES, B. A., a.s. (*W.S.* 1945); a.r.s. 1952 M. G. H.
Barnett, C. G., *M.* 1954
384 Post, San Francisco, Calif.
Barnett, T. B., *M.* 1950
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.
BARNUM, F. G., Jr., a. *M.* (*W.S.* 1945); j.r.s. 1946 1776 Beacon, Brookline
BARONDES, S. H., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont
BARR, J. S., c. *Or.* (*Or.* 1929) M. G. H.
Barrett, P. Van D., *M.* 1961; a.r.p. 1962 National Inst. of Health, Bethesda, Md.
Barretto, O. de F., *An.* 1944
rua Armando Penteado 356 (Pacaembú), Sáo Paulo, Brasil
BARRIE, J. R., a.r.s. (*S.* 1961) M. G. H.
Barrow, D. W., *E.S.* 1937
1810 E. Fox Lane, Milwaukee, Wis.
Barrows, L. J., r.p. *N.* 1952; r.p. *N.P.* 1953 Dept. of Pathology
Vet. Adm. Hosp., 150 S. Huntington Ave., Jamaica Plain
BARRY, H., Jr., assoc. psychiat.; r.p. *Psychiat.* 1944 M. G. H.
Barry, Richard M., a.r.p. 1957
464 Ocean Ave., New London, Conn.
BARRY, RT. REV. ROBERT P., *Trustee* 71 Warner, W. Somerville
BARSCH, J. H., a.r.p. *An.* M. G. H.
*Barsh, L. I., *Dn. M.* 1962
2746-D Falcon Court, East, MaGuire Air Force Base, Wrightstown, N. J.
Barss, T. P., a.r.p. *An.* 1950
332 Windsor Ave., Medford, Oreg.
Barth, T. A., a.r.s. *Or.* 1957
2420 N. California, Stockton, Calif.
BARTLETT, M. K., v.s. (*W.S.* 1931) M. G. H.
Bartlett, W. M., *C.M.* 1927
125 Michigan Ave., Decatur, Ga.
Barton, L. G., Jr., *E.S.* 1914
132 Court, Plattsburg, N. Y.
Barton, T. C., a.r.s. 1960
Boston Lying-in Hosp.
Bate, J. T., r.s. *U.* 1925
301 W. Ormsby Ave., Louisville, Ky.
Batt, R. C., r.p. *R.* 1940
83 Park, Glens Falls, N. Y.
Battat, F.A., a.r.s. *Or.* 1961
2625 Park Ave., Concord, Calif.
BATTIT, G. E., a. an.; c.r.p. *An.* 1951 M. G. H.
Baue, A. E., *S.* 1955; r.s. 1961
Univ. of Missouri Med. Center, Columbia, Mo.
*Bauer, F. L., *Path.* 1941
CRDL, Edgewood Arsenal, Md.

*Not in States and Cities section of this Directory

Baumgartner, D. A., Jr., a.r.s. 1961
3627 Runnymede Blvd., Cleveland Hts., Ohio

Bautista, Florosa A., a.r.p. *C.M.* 1958
Vet. Memorial Hosp., Quezon City, P. I.

Baxter, C. F., *W.S.* 1944; sr.r.s. *W.S.* 1946
714 Northeast 8th, Delray Beach, Fla.

Beaman, G. B., r.p. *Psychiat.* (*McL.*) 1936
63 Nichols Rd., Cohasset

BECK, H. B., Jr. *Trustee*
53 State

Beck, Kathryn S., r.p. *Psychiat.* (*McL.*) 1962
95 Coolidge, Brookline

BECK, W. S., assoc. p.
M. G. H.

Bedell, R. F., *C.M.* 1958
1557 24th, Boulder, Colo.

Bedell, W. C., *E.S.* 1945
168 S. Cherry, Poughkeepsie, N. Y.

BEECHER, H. K., c. *An.* (*W.S.* 1934); a.r.s. *W.S.* 1936
M. G. H.

Beeman, C. B., *Path.* 1934
515 Lakeside Dr., Grand Rapids, Mich.

BEHRENDT, D. M., *S.*
M. G. H.

BEHRINGER, G. E., a.s. (*W.S.* 1946); a.r.s. 1952
266 Beacon

BELL, E., cons. *Biophys. N.S.*
M. G. H.

Bell, G. O., *W.M.* 1936
Lahey Clinic

Bell, James P., a.r.s. *Or.* 1959
McBride Clinic, 605 N.W. 10th, Oklahoma City, Okla.

Bell, John F., *Or.* 1941
115 Colchester Ave., Burlington, Vt.

Bell, John W., *E.S.* 1946
Vet. Adm. Hosp., Seattle, Wash.

Bell, M. H., a.r.s. *Or.* 1963
Children's Med. Center

BELL, N. W., a. sociol. and c. *Soc. Sc.* (*McL.*)
McLean Hosp., Belmont

BELLINGER, M. J., clin. assoc. *S.*
114 Waltham, Lexington; M. G. H.

Belsasso-Prister, G. a.r.p. *Psychiat.* 1962; r.p. Psychiat. (*McL.*) 1963
M. G. H.

BENDA, C. E., a. psychiat.
111 Pleasant, Arlington

Bendheim, O. L., *W.M.* 1938
5051 N. 34th, Phoenix, Ariz.

BENDIXEN, H. H., an.
M. G. H.

BENEDICT, E. B., *Bd. of Cons.* (*W.S.* 1926)
M. G. H.

BENEDICT, PATRICIA H., a. *M.*
M. G. H.

Bengle, A. L., Jr., *E.S.* 1947; c.r.p. *An.* 1951
2217 Webster, San Francisco, Calif.

Bennett, C. B., *Or.* 1923
1122 University Ave., Berkeley, Calif.

BENNETT, DORIS R., clin. assoc. *C.* (*C.M.* 1951); a.r.p. *C.M.* 1952
452 Pleasant, Malden

Bennett, Lillian F., *C.M.* 1946
2299 19th Ave., San Francisco, Calif.

Bennett, W., *M.* 1948; a.r.p. 1949
452 Pleasant, Malden

BERENBERG, W., cons. *C.*
Children's Med. Center

BEREZIN, M. A., attend. psychiat. (*McL.*)
90 Forest Ave., W. Newton

Berg, H. W., r.p. *D.* 1936
38 Mardella Rd., Albany, N. Y.

Berg, R. L., *M.* 1944; c.r.p. 1950
Univ. of Rochester Sch. of Med. and Dn., Rochester, N. Y.

Berkheimer, G. A., r.s. *Or.* 1941
325 N. Front, Harrisburg, Pa.

Berlow, S., *C.M.* 1951; c.r.p. *C.M.* 1954
820 W. Bradley, Milwaukee, Wis.

BERNSTEIN, N. R., a. psychiat.; a.r.p. *Psychiat.* 1954
M. G. H.

BEUSCHER, RUTH B., a. attend. psychiat. (*McL.*)
15 Agawam Rd., Waban

Bickley, D. W., *W.M.* 1936
2001 Kimball Ave., Waterloo, Iowa

Bidwell, R. LeR., II, *E.S.* 1943; r.s. *N.S.* 1949
31 Bramhall, Portland, Maine

Bienvenu, L. J., a.r.p. *D.* 1951
1426 Elm, Manchester, N. H.

Bigelow, F. S., *E.M.* 1943; a.r.p. 1947
Boston City Hosp.

Billig, H. E., Jr., *Or.* 1935
Billig Clinic, 139 S. Alvarado, Los Angeles, Calif.

Binder, S. C., *S.* 1961; a.r.s. 1962
U. S. Public Health Service, Indian Hosp., Sells, Ariz.

BINGER, C. A. L., hon. p. (*E.M.* 1915)
M. G. H.

Binion, J. T., *M.* 1953; a.r.p. 1954
3707 Gaston Ave., Dallas, Tex.

BINSTOCK, W. A., a. attend. psychiat. (*McL.*)
51 Brattle, Cambridge

BIRD, K. T., a.p. (*M.* 1944)
M. G. H.

Bisgard, J. D., *W.S.* 1924
44th and Farnum, Omaha, Nebr.

BISHOP, J. M., a.r.p. (*M.* 1963)
M. G. H.

Bishop, R. C., *M.* 1945; a.r.p. 1949
Simpson Memorial Inst.,
Ann Arbor, Mich.

Bixby, H. I., *W.S.* 1924
Sippewissett Rd., Falmouth

Black, P. H., *M.* 1957; r.p. 1961
National Inst. of Health,
Bethesda, Md.

Blade, W. R., r.p. *R.* 1958
1510 Seabright Ave.,
Santa Cruz, Calif.

Blades, J. F., *N.S.* 1937
810 W. Franklin, Richmond, Va.

BLAND, E. F., cons. v.p. (*E.M.* 1929)
M. G. H.

BLANE, H. T., assoc. psychol.
M. G. H.

BLANK, I. H., assoc. biochem. *D.*
M. G. H.

BLENNERHASSETT, J. B., r.p. *Path.*
M. G. H.

Bliss, H. A., *M.* 1945; a.r.p. 1947
Univ. of Illinois Med. Sch.,
Chicago, Ill.

BLOCH, K. J., a. *M.*; r.p. 1961
M. G. H.

Block, G. L., r.s. *U.* 1950
Doctor's Bldg., Cincinnati, Ohio

Blodgett, F. M., *C.M.* 1946; c.r.p. *C.M.* 1950
Yale Univ. Sch. of Med.,
New Haven, Conn.

Blodgett, W. H., *Or.* 1940
603 Kales Bldg., Detroit, Mich.

Bloomberg, W., r.p. *N.* 1931
State Office Bldg., Hartford, Conn.

Bloomer, J. E., *E.S.* 1917
500 173rd Ave., St. Petersburg, Fla.

Bloomfield, D. K., r.p. 1957
Univ. Hosp. of Cleveland,
Cleveland, Ohio

BLUBAUGH, S. A., a.r.p. *An.*
M. G. H.

Blunden-Morris, Dulcie E., a.r.p. *An.* 1953
306 Patterson Ct.,
Takoma Pk., Md.

BOCK, A. V., hon. p. (*W.M.* 1917); sr.h.p. *W.M.* 1924
75 Mount Auburn, Cambridge

Boger, W. P., a.r.p. 1942
McNeil Labs., Camp Hill Rd.,
Fort Washington, Pa.

Bohrer, S. P., *S.* 1959; r.p. *R.* 1963
Univ. College Hosp.,
Ibadan, Nigeria

*Boivin, M. J., a.r.p. *An.* 1961
48th Tactical Hospital, A.P.O.
170, c/o Postmaster, New York,
N. Y.

Boller, C., *E.M.* 1929
267 Alexander,
Rochester, N. Y.

BONNER, FRANCES J., a. psychiat.
160 Lake Ave., Newton Centre

Boone, J. A., *C.M.* 1934
Medical College Hosp.,
55 Doughty, Charleston, S. C.

BOOTH, N. A., a. oral s. 82 Day,
Norwood

Bora, F. W., Jr., sr.r.s. *Or.* 1961
15 Hannum Dr., Ardmore, Pa.

Borden, R. P., *W.S.* 1914
Langley Prairie, British Columbia,
Canada

*Bornstein, A. M., a.r.p. *Path.* 1960
Myron Manor Apts., Jackson
Blvd., Columbia, S. C.

Bornstein, D. L., r.p. 1962
Univ. of Pennsylvania Hosp.,
Dept. of Research Med.,
Philadelphia, Pa.

Bornstein, I. D., a.r.p. *D.* 1961
500 E. 33rd, Chicago, Ill.

BORUCHOFF, S. A., a. *Oph.*
192 Bay State Rd.

Bosco, H. F., *Dn.* 1946
300 Main, New Britain, Conn.

BOSTIC, W. C., III, a.r.s. *Or.*
M. G. H.

Bowden, L., *E.S.* 1941; a.r.s. 1942
177 E. 79th, New York, N. Y.

Bowditch, H., *W.M.* 1911
12 Pine, Peterborough, N. H.

Bower, W. H., r.p. *Psychiat.* (*McL.*) 1949
1559 N. Bundy Dr.,
Los Angeles, Calif.

Boyd, R. J., a.r.s. *Or.* 1963
Children's Med. Center

Boyden, A. M., *W.S.* 1934
1216 S. W. Yamhill,
Portland, Oreg

Boyes, J. H., *Path.* 1930
2300 S. Hope, Los Angeles, Calif.

BRACE, L. D., *Trustee* 67 Milk

BRACONIER, H. E., assoc. s. *Oph.*
1180 Beacon, Brookline

BRADY, F. W., a. *Otolar.*
Mass. E. & E. Inf.

BRAGG, R. L., assoc. psychiat.
11 Chapel Pl., Wellesley Hills

*Not in States and Cities section of this Directory

BRAILEY, A. G., *Bd. of Cons.* (*E.M.* 1930) 1308 Walnut, Newton Highlands

BRAMAN, CONSTANCE L., a. to gen. dir. *P.H.* (*S.N.* 1932) M. G. H.

Brandstrup, N. E., a.r.p. *C.M.* 1959 8 Juliane Mariesvej, Copenhagen, Denmark

Brannon, L. C., r.s. *N.S.* 1955 10 S. Calhoun, Greenville, S. C.

BRATT, H. A., dn.s. 8 Belgrade Ave., Roslindale

Braudo, J. L., a.r.p. *C.M.* 1953 904 Med. Center, Jeppe, Johannesburg, South Africa

BRAZELTON, T. B., assoc. pediat.; a.r.p. *C.M.* 1947 51 Brattle, Cambridge

BREED, F. B., a.s. *Oph.* Mass. E. & E. Inf.

Breer, R. D., a.r.p. *C.M.* 1957 17 Haynes, Manchester, Conn.

Brendler, S. J., sr.r.s. *N.S.* 1953 New Eng. Center Hosp.

BRENDZE, R. B., a. *Or.* Zero Emerson Pl.

Brenizer, A. G., Jr., *W.S.* 1942; r.s. 1944 1012 Kings Dr., Charlotte, N. C.

Brenner, J. H., r.p. *Psychiat.* (*McL.*) 1961 41 Tennyson Rd., Wellesley Hills

Brent, R. L., *C.M.* 1955 Jefferson Med. Coll. of Philadelphia, Philadelphia, Pa.

Breslow, A., a.r.p. *Path.* 1959 George Washington Univ. Hosp., Washington, D. C.

Bresnahan, J. F., past a. dir. 4670 Pine, Omaha, Nebr.

BREWSTER, H. H., assoc. psychiat. (*W.M.* 1940) Zero Emerson Pl.

Brewster, W. R., Jr., a.r.p. *An.* 1950 1400 S. Joyce, Arlington, Va.

*Bridge, E. M., *C.M.* 1927 USOM American Embassy, Asuncion, Paraguay

BRIEFER, C., Jr., a. *M.* (*M.* 1959) r.p. 1963 M. G. H.

Brindley, C. O., *M.* 1950 National Inst. of Health, Bethesda, Md.

Brock, B. L., *C.M.* 1923 Southeast Florida Tuberculosis Hosp., Lantana, Fla.

BROCKHURST, R. J., assoc. s. *Oph.* (*M.* 1948) 99 W. Cedar

BRODERICK, T. F., Jr., clin. assoc. *Or.*; sr.r.s. *Or.* 1947 697 Cambridge, Brighton

BRODKEY, J. S., a.r.s. *N.S.* M. G. H.

Brooks, P. T., *E.S.* 1943; a.r.s. 1949 Walla Walla Clinic, Walla Walla, Wash.

Broome, R. A., Jr., *M.* 1944 3 W. Columbia, Orlando, Fla.

Brown, C. S., a.r.p. *D.* 1952 8218 Wisconsin Ave., Bethesda, Md.

Brown, F. Bert, *Or.* 1937 22 W. Gaston, Savannah, Ga.

BROWN, FLORENCE GIBERTI, exec. a. *B.M.* (*S.N.* 1929) M. G. H.

BROWN, JOAN M., a.r.p. *An.* M. G. H.

Brown, L., *N.S.* 1938 316 State, Bangor, Maine

Brown, N. K., *M.* 1957; a.r.p. 1958 Medical Dental Blgd., Seattle, Wash.

Brown, R. Gordon, *Path.* 1942 122 S. Michigan Ave., Chicago, Ill.

Brown, Robert H., *E.S.* 1944; j.r.s. 1945 3609 Thornapple St., Chevy Chase, Md.

Brown, Robert K., *W.S.*, 1939; r.s. 1942 1624 Gilpin, Denver, Colo.

BROWN, T., v.s. *Or.*; r.s. *Or.* 1949 M. G. H.

BROWNELL, G. L., applied physicist *M.* M. G. H.

Brownsberger, C. N., a.r.p. 1957 Univ. of Washington Sch. of Med., Seattle, Wash.

BRUBAKER, R. F., *S.* M. G. H.

Brues, A. M., *E.M.* 1932 Argonne National Lab., Lemont, Ill.

BUCHANAN, D., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Buchanan, R. N., Jr., r.p. *D.* 1941 1905 Hayes, Nashville, Tenn.

Buchanan, W. R., Jr., *C.M.* 1955; r.p. *C.M.* 1957 9 Greenway Lane, Greenfield

BUCHER, NANCY L. R., assoc. biol. *M.* M. G. H.

BUCKLEY, F. M., a. psychol. Assumption College, Worcester

*Not in States and Cities section of this Directory

Buckley, M. J., Jr., *S.* 1959; a.r.s. 1962 National Inst. of Health, Bethesda, Md.

BUDSON, R. D., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Bullard, C. W., *W.S.* 1918 194 High, Newburyport

BULLIVANT, S., biophys. *N.S.* M. G. H.

Bullwinkel, B., *S.* 1957 a.r.s. 1961; a.r.p. *An.* 1963 115 Benjamin Dr., Ormond Beach, Fla.

Bunker, J. P., *E.S.* 1946; a.r.p. *An.* 1950 Stanford Med. Center, Palo Alto, Calif.

Bunker, S. M., past a. dir. Westwood

BURBANK, C. B., clin. assoc. *S.* (*W.S.* 1939); r.s. 1942 94 Pleasant, Arlington

Burden, C. E., a.r.p. *C.* 1961 1 North, Bath, Maine

BURGIN, L. B., pediat. (*C.M.* 1932); r.p. *C.M.* 1935 151 Kent, Brookline

BURKE, J. F., assoc. v.s. (*S.* 1952); r.s. 1957 M. G. H.

Burke, M. F., a.r.s. 1961 712 D, San Rafael, Calif.

BURKE, R. E., a.r.p. *N.* (*M.* 1962); a.r.p. 1963 M. G. H.

Burland, G. R., a.r.s. 1953 Olds, Alberta, Canada

Burnett, C. H., c.r.p. 1946 Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

Burnett, F. L., *S.S.* 1908 Procter, Manchester

BURNETT, JEAN B., a. biochem. *D.* M. G. H.

BURNHAM, C. A., a. applied physicist. *M.* M. G. H.

Burns, E. M., r.p. *Psychiat.* 1935 1920 N.W. Johnson, Portland, Oreg.

BURR, F. H., *Trustee* 50 Federal

BURRAGE, WALTER S., *Bd. of Cons.* (*E.M.* 1927) 330 Dartmouth

Burrage, William C., *E.M.* 1941; a.r.p. 1946 57 Deering, Portland, Maine

Burrington, J. D., *S.* 1961; a.r.s. 1963 Children's Med. Center

Burrow, J. G., *Dn.* 1948; a.r.s. *Dn.* 1949 507 Main, Worcester

Burwell, C. S., *W.M.* 1919; h.p. *W.M.* 1921 H. M. S.

Bush, R. D., *W.S.* 1943 203 Commonwealth Ave.

BUSHNELL, L. S., a.r.p. *An.* M. G. H.

BUTLER, A. M., *Bd. of Cons.* Tashmoo Farm, Vineyard Haven, Martha's Vineyard

Butler, W. T., *M.* 1959; a.r.p. 1960 5903 Greenlawn Dr., Bethesda, Md.

Buttles, R. V., r.p. *Path.* 1950 Heaton Hosp., Montpelier, Vt.

Byers, R. K., *E.M.* 1923 Children's Med. Center

Byrnes, R. L., a.r.p. *Path.* 1954 31870 Coast Highway, S. Laguna, Calif.

CAIN, A. J., assoc. attend. psychiat. (*McL.*) McLean Hosp., Belmont

Calhoun, F. P., Jr., *E.M.* 1938 478 Peachtree, N.E., Atlanta, Ga.

Calkins, E., c.r.p. 1952 Buffalo Gen. Hosp., Buffalo, N. Y.

CALLISON, J. R., a.r.s. M. G. H.

CALNAN, A. F., a. *Oph.* 520 Commonwealth Ave.

Cameron, H. S., sr.r.s. *Or.* 1957 450 Central Ave., London, Ontario, Canada

Campbell, C. R., r.p. *Path.* 1955 100 S. San Mateo Dr.,

Canellos, G. P., *S.* 1961; a.r.p. 1963 National Inst. of Health, Bethesda, Md.

CANER, G. C., *Bd. of Cons.* (*W.M.* 1924) 63 Marlborough

Canlas, B. D., Jr., r.p. *Path.* 1956 Coll. of Med., Univ. of the Philippines, Manila, P. I.

CANNON, B., v.s. M. G. H.

Cannon, J. A., *E.S.* 1944; a.r.s. *E.S.* 1946 Univ. of California Med. Center, Los Angeles, Calif.

Cantlon, E. L., *E.S.* 1938; r.s. *W.S.* 1941 220 S. Virginia, Reno, Nev.

Cantlon, J. V., *E.S.* 1935; r.s. *E.S.* 1938 220 S. Virginia, Reno, Nev.

*Cantor, H. E., *C.* 1963 #05015248, USA, MC, Japan, Pediatric Service A.P.O. 343, San Francisco, Calif.

CAPLAN, G., psychiat. 93 Fresh Pond Parkway, Cambridge; Harvard Sch. of Public Health

CAPLAN, L. M., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1960 McLean Hosp., Belmont

*Not in States and Cities section of this Directory

Capland, L., r.p. *D.* 1940
1680 Meridian Ave., Miami Beach, Fla.

Capps, J. A., *E.M.* 1896
21 Woodley Rd., Winnetka, Ill.

Capps, R. B., *C.M.* 1931 and *E.M.* 1933 122 S. Michigan Ave., Chicago, Ill.

Capps, S. C., *Path.* 1946; a.r.p. *Path.* 1949 Butterworth Hosp., Grand Rapids, Mich.

Cardenal, F. A., a.r.s. *Or.* 1959
Apartado Postal 579, Las Palmas de Gran Canaria, Spain

Carey, J. M., *W.S.* 1946
430 N. W. 12th, Oklahoma City, Okla.

Carey, R.W., *M.* 1960; a.r.p. 1961
Roswell Park Memorial Inst., Buffalo, N. Y.

*Carey, T. A., a.r.p. *R.* 1961
U.S.S. Calvert, A.P.O. 32, c/o Postmaster, San Francisco, Calif.

CARLTON, F. E., a.r.s. *U.* M. G. H.

Carmichael, Miriam W., a.r.p. *N.* 1956
1100 W. Franklin, Richmond, Va.

Carmody, J. T. B., a.r.s. *N.S.* 1936
65 Elm, Worcester

CARNES, H. A., a. oral s.
29 Bay State Rd.

CARNEY, H. J., a. oral s.
403 Commonwealth Ave.

Carroll, R. E., *E.S.* 1943; r.s. *Or.* 1944
Columbia-Presbyterian Med. Center, New York, N. Y.

Carruth, Lee Jackson, r.p. *Psychiat.* (McL.) 1959 125 E. University Ave., Wooster, Ohio

Carson, P. C., r.s. *Or.* 1940
130 Maple, Springfield

CARTER, E. L., a. *S.* (*S.* 1954); a.r.s. 1960 M. G. H.

CARTER, F., a. psychiat.; r.p. *Psychiat.* (*McL.*) 1948
51 Brattle, Cambridge

Carter, George B., r.p. *R.* 1962
Parkland Memorial Hosp., Dallas, Tex.

Carter, George H., *M.* 1943; a.r.p. 1947; r.p. *Psychiat.* 1948
Boston Univ.-Mass. Memorial Hosp. Med. Center

CARTER, J. R., Jr., r.p. (*M.* 1960) M. G. H.

CARTER, LUCILLE P., a. *Psychiat.*
17 Trinity Ter., Newton Centre

Carter, R. R., r.p. *N.* 1942
Med. Arts Bldg., Portland, Oreg.

Cascario, N., Jr., *Dn.* 1944
36 N. 1st, Bangor, Pa.

Case, C. T., *W.S.* 1943
1402 Genesee, Utica, N. Y.

CASS, J. W., Jr., *Bd. of Cons.* (*W.M.* 1931) 87 Chestnut

Casten, V. G., *N.* 1929
412 Beacon

Castle, W. B., *E.M.* 1923
Boston City Hosp.

CASTLEMAN, B., c. *Path.* (*Path.* 1932); r.p. *Path.* 1935 M. G. H.

Catlin, R. Jr., r.p. *Psychiat.* (*McL.*) 1963; a.r.p. *Psychiat.* 1962 M. G. H.

Catterson, L. F., *C.M.* 1924
107½ High Ave., West, Oskaloosa, Iowa

CAULFIELD, J. B., a. path. M. G. H.

CAVANAUGH, J. J. A., a. pediat.
St. Elizabeth's Hosp., Brighton

CAVANAUGH, T., assoc. s. *Oph.*
403 Commonwealth Ave.

CAVE, E. F., cons. v.s. *Or.* (*E.S.* 1926 and *Or.* 1928) M. G. H.

CAVINESS, V. S., Jr., a.r.p. (*M.* 1963) M. G. H.

Cecil, L. M., *M.* 1950
710 C, San Rafael, Calif.

CHAFETZ, M. E., psychiat.
M. G. H.

Chaffin, G. L., *E.S.* 1918; h.s. *W.S.* 1921 and *U.* 1921
1136 W. 6th, Los Angeles, Calif.

Chai, Joyce K. Wong, *O.P.D.* r.p. *C.M.* 1960 6615 Franklin Ave., Hollywood, Calif.

CHALFIN, R. M., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

CHALPIN, G., a. attend. psychiat. (*McL.*) 130 Longwood Ave., Brookline

Chamberlain, J. M., *N.S.* 1934 and *W.S.* 1937 23 E. 79th, New York, N. Y.

Chamberlin, H. R., *C.M.* 1949
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

Chamberlin, R. W., Jr., a.r.p. *C.M.* 1959
Univ. of Kentucky Med. Center, Lexington, Ky.

Chandler, H. P., a.r.s. *Or.* 1962
Peter Bent Brigham Hosp.

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Chaplin, H., Jr., *M.* 1948; r.p. 1950
Washington Univ. Sch. of Med.,
St. Louis, Mo.
Chapman, C. Ethelyn, *An.* 1937; r.p. *An.* 1938 Cedars of Lebanon Hosp., Los Angeles, Calif.
CHAPMAN, E. M., p. (*W.M.* 1931); c.r.p. 1934 M. G. H
CHAPMAN, R. B., a. *Oph.*
743 High, Dedham
Charash, L. I., a.r.p. *C.M.* 1952
146 Mount Joy Ave., Freeport,
Long Island, N. Y.
CHAREST, C., a. *R.* M. G. H.
Chase, J. S., *E.S.* 1940
392 Pleasant, Brockton
CHASE, T. N., a.r.p. *N.* M. G. H.
CHASEN, MIGNON C., a. attend. psychiat. (*McL.*)
111 Cedar, Newton Centre
CHASIN, W. D., a. *Otolar.*
Mass. E. & E. Inf.
Cheer, Sheo-Nan, *E.M.* 1922
Newton Baker Vet. Adm. Center,
Martinsburg, W. Va.
Cheney, M. C., *W.M.* 1918
3000 Colby, Berkeley, Calif.
Chernoff, A. I., *M.* 1948
Memorial Res. Center,
Univ. of Tennessee, Knoxville, Tenn.
CHISHOLM, J. F., Jr., a.s. *Oph.*
330 Dartmouth
Chittick, R. A., r.p. *Psychiat.* (*McL.*) 1938 Vermont State Hosp.,
Waterbury, Vt.
Choras, P. T., r.p. *Psychiat.* (*McL.*) 1962; a.r.p. *Psychiat.* 1963
Boston City Hosp.
CHRIST, J., a. attend. psychiat. (*McL.*)
51 Brattle, Cambridge
Christensen, W. R., *W.M.* 1943
Salt Lake County Gen. Hosp.,
Salt Lake City, Utah
Christenson, W. N., *M.* 1949; a.r.p. 1950
New York Hosp., New York, N. Y.
CHRISTMAN, G., a. oral s. (*Dn.* 1951); a.r.s. *Dn.* 1952
403 Commonwealth Ave.
CHURCHILL, E. D., *Bd. of Cons.* (*W.S.* 1922); h.s. 1923
269 Prospect, Belmont
CHURCHILL, W. H., Jr., *M.*
M. G. H.
CHUTE, R., *Bd. of Cons.* (*E.S.* 1929)
Vet. Adm. Hosp.,
150 S. Huntington Ave.,
Jamaica Plain
Ciano, J. F., *Dn.* 1954
1159 Hancock, Quincy
CICCARELLI, E. C., a. *Oph.*
66 Lewis Bay Rd., Hyannis
CIVANTOS, F., a.r.p. *Path.* M. G. H.
CIVETTA, J. M., *S.* M. G. H.
Claiborne, T. S., *W.M.* 1934
384 Peachtree, N.E., Atlanta, Ga.
Claman, H. N., r.p. 1958
Univ. of Colorado Med. Center,
Denver, Colo.
Clapp, S., *N.S.* 1939
4740 Chevy Chase Dr.,
Chevy Chase, Md.
Clark, Dean A., past gen. dir.
Grad. Sch. of Public Health,
Univ. of Pittsburgh,
Pittsburgh, Pa.
Clark, DeWitt S., *E.S.* 1915
2 Oliver, Salem
CLARK, J. G., Jr., a. psychiat. (*McL.*); r.p. *Psychiat.* 1955; r.p. *Psychiat.* (*McL.*) 1958 McLean Hosp.,
Belmont
Clark, L. D., *M.* 1948; r.p. *Psychiat.* 1950
Salt Lake County Gen. Hosp.,
Salt Lake City, Utah
Clark, M. M., *Or.* 1928
38 N. Goodman, Rochester, N. Y.
CLARK, R. J., *Bd. of Cons.* (*W.M.* 1933) 15 Dix, Winchester
Clark, S. L., Jr., *M.* 1950
Washington Univ. Sch. of Med.,
St. Louis, Mo.
CLARK, W. H., Jr., assoc. path.
M. G. H.
Clarke, B. G., *E.M.* 1943
943 Oak, Winnetka, Ill.
CLAY, C. L., a.dir. M. G. H.
Clement, J. D., Jr., *W.S.* 1944
77 Essex, Bangor, Maine
Clement, S. P., Jr., *M.* 1956
1266 4th, Sarasota, Fla.
CLIFFORD, M. H., a.p.; a.r.p. 1935
Vet. Adm. Hosp., Rutland Heights
CLIFFORD, S. H., cons. *C.* (*E.M.* 1927) Boston Lying-in Hosp.
CLINE, H. S., a. *Psychiat.;* a. attend. psychiat. (*McL.*); a.r.p. *Psychiat.* 1956 185 Dean Rd., Brookline
Cline, J. W., Jr., *E.S.* 1927
490 Post, San Francisco, Calif.
CLOUGH, J. M. assoc. s. *Oph.*
266 Beacon
CLOUSE, M. E., r.p. *R.* M. G. H.

Clowes, G. H. A., Jr., a.r.s. 1948
Med. Coll. of South Carolina, Charleston, S. C.

CLUBB, R. W., a. *Otolar.*
403 Commonwealth Ave.

Cobb, C. A., Jr., r.p. *N.* 1948
Med. Arts Bldg., Nashville, Tenn.

COBB, S., hon. p.; cons. psychiat. (*McL.*) M. G. H.

Cobbs, B. W., Jr., *M.* 1953; r.p. 1955
Emory Univ. Clinic, Emory University, Ga.

COCHRAN, W. D., a. pediat.; a.r.p. *C.M.* 1954 Boston Lying-in Hosp.

Coe, R. C., *S.* 1951; r.s. 1955
1115 Columbia, Seattle, Wash.

COGAN, D. G., c. *Oph.* and dir. Howe Lab. Mass. E. & E. Inf.

Coggeshall, H. C., *W.M.* 1935
3710 Swiss Ave., Dallas, Tex.

Coggins, C. H., *M.* 1959
627 Barron Ave., Palo Alto, Calif.

COGSWELL, THELMA B., exec. a. *M.G.H. Clin.* (*S.N.* 1926) M. G. H.

COHEN, A., clin. assoc. *C.*
1093 Beacon, Brookline

Cohen, I. J., *C.M.* 1931
Vet. Adm. Central Office, Washington, D. C.

COHEN, JACK, res. assoc. *D.* M. G. H.

Cohen, Johnathan, a.r.s., *Or.* 1950
Children's Med. Center

COHEN, MORRIS, cons. *Or.*
M.I.T., Cambridge

*Cohen, N. R., *M.* 1962; a.r.p. 1963
U. S. Air Force Hospital, PACAF, A.P.O. 74, San Francisco, Calif.

COHEN, R. B., assoc. path.; r.p. *Path.* 1953 M. G. H.

Cohn, R. B., *Path.* 1933 and *E.S.* 1936; r.s. *N.S.* 1934 and *W.S.* 1937
Stanford Med. Center, Palo Alto, Calif.

Cohn, Z. A., *M.* 1954; a.r.p. 1955
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

COLBY, F. H., hon. s. (*W.S.* 1920)
27 Chestnut, Brookline

Cole, C. H., *Path.* 1935
111 W. Main, Waterbury, Conn.

COLE, E. M., n.; r.p. *N.* 1932; r.p. *Psychiat.* (*McL.*) 1934 M. G. H.

Cole, M., a.r.p. *N.* 1960
2608 Tilden, N. W., Washington, D. C.

COLEMAN, R. M., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Coles, M. R., a.r.p. *Psychiat.* 1956; r.p. *Psychiat.* (*McL.*) 1957
75 Mount Auburn, Cambridge

Coley, Mary S., *C.M.* 1955
253 Ridgewood Rd., West Hartford, Conn.

Coller, F. A., *W.S.* 1914; h.s. *W.S.* 1915 St. Joseph's Mercy Hosp., Ann Arbor, Mich.

Collins, D. L., Jr., *S.* 1955; a.r.s. 1961
Cabarrus Med. Bldg., Concord, N.C.

Collins, G. H., a.r.p. *Path.* 1959
Coll. of Med., Univ. of Florida, Gainesville, Fla.

Collins, H. Douglas, *M.* 1953; r.p. 1955 8 N. Main, Caribou, Maine

Collins, Harvey S., *M.* 1944; a.r.p. 1945
Memorial Hosp., 444 E. 68th, New York, N. Y.

*Collins, R., *E.S.* 1933
U. S. Army Intelligence Center, Fort Holabird, Baltimore, Md.

Colokathis, P., a.r.s. *Or.* 1954
146 Tarrytown Rd., Manchester, N. H.

Colpitts, G. E., r.p. *Path.* 1952
Regina General Hosp., Regina, Saskatchewan, Canada

Colquhoun, J. B., *Or.* 1927
85 Spring, Melbourne, Australia

Colwell, H. S., *E.M.* 1916
158 Whitney Ave., New Haven, Conn.

COMB, D. G., a. biochem. *M.* M. G. H.

Comly, H. H., *C.M.* 1944
951 E. Lafayette, Detroit, Mich.

Compton, D. W., r.p. *An.* 1946
905 E. Columbia, Seattle, Wash.

Conley, J. E., *E.S.* 1941; a.r.s. 1942
425 E. Wisconsin Ave., Milwaukee, Wis.

CONNELLY, J. P., assoc. pediat. (*C.M.* 1957); c.r.p. *C.* 1961 M. G. H.

Conrad, Elizabeth, a.r.p. *C.M.* 1945
2240 Cloverdale Ave., Winston- Salem, N. C.

CONSTABLE, J. D., a.s. (*S.* 1953); r.s. 1959 M. G. H.

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Conway, R. E., a.r.s. *Or.* 1963
Children's Med. Center
Cook, C. D., a.r.p. *C.M.* 1949
Yale Univ. Sch. of Medicine,
New Haven, Conn.
Coolidge, J. C., *C.M.* 1945
141 Coolidge Hill, Cambridge,
Coolidge, T. B., *W.M.* 1929
5755 S. Dorchester Ave.,
Chicago, Ill.
Coombs, F. S., a.r.p. 1937
275 W. Federal, Youngstown, Ohio
Coons, A. H., *E.M.* 1939 H. M. S.
Cooperman, S., a.r.p. *Path.* 1961
St. Vincent's Hosp., Worcester
COPE, O., v.s. (*W.S.* 1930); r.s.
W.S. 1932 M. G. H.
COPELAND, R. B., *M.* M. G. H.
CORNING, H. B., a.r.p. (*M.* 1962)
M. G. H.
Corning, H. B., *M.* 1962; a.r.p.,
1963 M. G. H.
Cosby, R. S., *E.M.* 1940
111 Congress, Pasadena, Calif.
COSER, ROSE L., assoc. sociol.
(*McL.*) McLean Hosp., Belmont
COSGROVE, W. L., a.dn.s.
12 Waltham, Lexington
Cotter, W. C., r.s. *N.S.* 1957
110 Lockwood, Providence, R. I.
Cotzias, G. C., *M.* 1944; r.p. *N.* 1945;
a.r.p. 1946
Med. Dept., Brookhaven National
Lab., Associated Universities, Inc.,
Upton, Long Island, N. Y.
Cozen, L., *Or.* 1938
6221 Wilshire Blvd.,
Los Angeles, Calif.
CRABTREE, H. H., hon.s. (*E.S.*
1913); h.s. *W.S.* 1914 and *U.* 1919
Deaconess Med. Office Bldg.,
110 Francis
Craddock, C. G., Jr., a.r.p. *Psychiat.*
1950 Univ. of California Med.
Center, Los Angeles, Calif.
Craige, E., *M.* 1943; r.p. 1948
North Carolina Memorial Hosp.,
Chapel Hill, N. C.
Crandell, W. B., a.r.s. 1941
Vet. Adm. Hosp., White River
Junction, Vt.
Crary, L. S., Jr., a.r.s. 1963
3181 S. W. Sam Jackson Park
Rd., Portland, Oreg.
Crawford, E. S., *E.S.* 1947; r.s. 1954
Baylor Univ. Coll. of Med.,
Houston, Tex.
Crawford, H. B., *Or.* 1931; r.s. *Or.*
1932 15 Prince, Rochester, N. Y.
CRAWFORD, J. D., pediat. (*C.M.*
1945); c.r.p. *C.M.* 1949 M. G. H.
CREVELING, C., res. assoc. *Biochem.*
Res. M. G. H.
CROCKETT, D. C., deputy to gen. dir.
M. G. H.
Croll, Diane, r.p. *Path.* 1948
Vet. Adm. Hosp., Long Beach,
Calif.
Crone, N. L., *W.M.* 1933; r.p. 1937
Harvard Grad. Sch. of
Business Adm.
CRONIN, T. P., a.s. *Oph.*
94 Pleasant, Arlington
CRONKHITE, L. W., Jr., *Bd. of Cons.*
(*M.* 1950); r.p. 1953
Children's Med. Center
CROSSFIELD, RUTH M., clin assoc.
Psychiat. Hathorne, Box 50,
Danvers State Hosp., Danvers
Crystal, D. K., *W.S.* 1942; r.s. *W.S.*
1946 1110 Harvard Ave.,
Seattle, Wash.
Cudney, E. B., *Or.* 1926
159 Marlborough, Pontiac, Mich.
CULVER, P. J., assoc. p. (*E.M.* 1942)
M. G. H.
Cummer, F. H., Jr., sr. r.p. *Psychiat.*
(*McL.*) 1950
Boston City Hosp.
Cunningham, T. D., *W.M.* 1918 and
C.M. 1920
Republic Bldg., Denver, Colo.
CURRENS, J. H., a. *M.* M. G. H.
Currie, R. A., *S.* 1950; a.r.s. 1954
West Virginia Univ. Med. Center,
Morgantown, W. Va.
CURTIN, R. R., clin. assoc. *S.* (*S.*
1953); a.r.s. 1957 Exeter Clinic,
Exeter, N. H.
CURWEN, W. L., a. *D.*
565 High, Westwood
Cutts, F. B., *W.M.* 1934
315 Olney, Providence, R. I.
Daggett, W. M., Jr., *S.* 1959; a.r.s.
1960 4519 Everett,
Kensington, Md.
Dahl, L. K., c.r.p. 1947
Med. Dept., Brookhaven National
Lab., Associated Universities, Inc.,
Upton, Long Island, N. Y.
DALAND, E. M., hon. s. (*W.S.* 1918)
483 Beacon
D'Alessandro, G. L., a.r.p. *An.* 1950
275 Forest Ave., Glen Ridge, N. J.

Dalrymple, W., *M.* 1947
University Health Services, Princeton Univ., Princeton, N. J.

DALTON, J. C., a. *M.*
330 Dartmouth

DAMIANI, C. R., clin. assoc. *D.*; r.p. *D.* 1946 16 Norwich, Worcester

Damon, A., *M.* 1952
Harvard Sch. of Public Health

D'ANGIO, G. J., cons. *R.*
Children's Med. Center

DANIELS, E. M., assoc. psychiat. (*McL.*) 26 Lyman Rd., Chestnut Hill

DANIELS, HADASSAH S., a. attend. psychiat. (*McL.*) 26 Lyman Rd., Chestnut Hill

Dann, D. S., h.p. *R.* 1922
701 E. 63rd, Kansas City, Mo.

DARLING, R. C., a. *S.* (*C.M.* 1954); a.r.s. 1958 1180 Beacon, Brookline

DARROW, R. A. a. biochem. *Biochem. Res.* M. G. H.

d'AUTREMONT, C. C., a. attend. psychiat. (*McL.*); r.p. *N.* 1948 Children's Med. Center

Davanloo, H., a.r.p. *Psychiat.* 1959
Montreal Gen. Hosp., Montreal, Canada

David, J. R., *M.* 1956; r.p. 1961
New York Univ. Med. Sch., New York, N. Y.

David, S. D., *Or.* 1922
1215 Walker Ave., Houston, Tex.

DAVIDOFF, F. F., r.p. (*M.* 1960) M. G. H.

DAVIDSON, G. E., a psychiat. M. G. H.

DAVIES, J. A. V., *Bd. of Cons.*
319 Longwood Ave.

Davis, B. M., a.r.s. *W.S.* 1942
USPHS, 4223 Leland, Chevy Chase, Md.

Davis, James McC., *S.* 1948; a.r.s. 1952 1661 Riverside Ave., Jacksonville, Fla.

Davis, John M., *C.* 1961
National Inst. of Health, Bethesda, Md.

DAWES, D. C., a. psychiat.; r.p. *Psychiat.* (*McL.*) 1939
51 Brattle, Cambridge

Dawson, C. W., *Or.* 1936
1275 Olentangy River Rd., Columbus, Ohio

DeBLOIS, ELIZABETH, a.s. *Otolar.*
247 Commonwealth Ave.

DeBusk, F. L., *C.M.* 1947; a.r.p. *C.M.* 1950 1750 N. Palafox, Pensacola, Fla.

DECKER, B. L., assoc.p. (*C.M.* 1931 and *W.M.* 1932) 75 Mount Auburn, Cambridge

Defalco, A. J., *S.* 1963
11008 Waycross Way, Kensington, Md.

DEGEN, J. W., a. dir. M. G. H.

DeGROOT, L. J., a. p.; r.p. 1957 M. G. H.

Del Giudice, P. A., a.r.p. *An.* 1963 Grace Hosp., Detroit, Mich.

DeLong, W. B., *S.* 1962; a.r.s. 1963
University Hosp., Ann Arbor, Mich.

DeLORME, T. L., a.s. *Or.*; sr.r.s. *Or.* 1955 M. G. H.

d'Elseaux, F. C., *W.M.* 1929
37 Marlborough

de MARNEFFE, F. L. A., dir. (*McL.*); a.r.p. *Psychiat.* 1952
McLean Hosp., Belmont

DEMING, RUTH, exec. a. *M. G. H. Clin.* (*S.N.* 1925) M. G. H.

de Mola, L. L., a.r.p. *Path.* 1960
Alcanfores 999, Miraflores, Lima, Peru

DEMPSEY, P. A., dn.s.
56 Melville Ave., Dorchester

Dennie, C. C., *D.* 1914
Professional Bldg., Kansas City, Mo.

Denton, Jane E., *M.* 1946; a.r.p. 1946
Main, Hopkinton

*DePriest, O. S., III,
General Surgical Service, Seoul Military Hospital, A.P.O. 301, San Francisco, Calif.

Derby, J. P., *Or.* 1925
20 Maple, Springfield

Derow, H. A., *Path.* 1928
1136 Beacon, Brookline

Derow, S., *Path.* 1931
925 Centre, Newton Centre

Derrick, C. C., *Path.* 1940 and *E.M.* 1942; r.p. *Path.* 1941
25 Maple, Springfield

DeSANCTIS, R. W., a. *M.* (*M.* 1956); r.p. 1960 M. G. H.

Detwiler, Robert C., a.r.s. *Or.* 1956
68 Charlton Ave., West, Hamilton, Ontario, Canada

Detwiler, Robert H., *C.M.* 1940
3120 N. 13th, Arlington, Va.

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DEUTSCH, HELENE, *Bd. of Cons.*
44 Larchwood Dr., Cambridge
Devan, T. A., past a. dir.
325 19th Ave., N.E.,
St. Petersburg, Fla.
Dewey, E. B., *E.S.* 1921
Box 2029, Pebble Beach, Calif.
DeWILDE, H., clin. assoc. *Dn. M.*
403 Commonwealth Ave.
DEXTER, C. J., clin. assoc. *S.*
51 Brattle, Cambridge
Deykin, D., *M.* 1958
Beth Israel Hosp.
DIAMOND, L. K., cons. *C.*
Children's Med. Center
Dickersin, G. R., a.r.p. *Path.* 1957
Brockton Hosp., Brockton
Dickson, Carol C., *M.* 1948; *C.M.* 1949
127 W. 79th,
New York, N. Y.
DICKSON, D. N., a. *R.* M. G. H.
DICKSON, W. A., assoc. pediat. (*C.M.* 1946); a.r.p. *C.M.* 1947
75 Canton Ave., Milton
Diehl, Sylvia Davies, a.r.p. *C.M.* 1958
33 Maple Ave., Madison, N. J.
DIENES, L., hon. p. M. G. H.
DIERKS, MARIANNE, a.r.p. *Psychiat.* M. G. H.
Dillon, H. T., Jr., *Path.* 1958; a.r.p. *Path.* 1959
62 Butler, S.E., Atlanta, Ga.
Dillon, V. M., *Or.* 1932
2166 Hayes, San Francisco, Calif.
Dimon, J. H., III, sr.r.s. *Or.* 1960
1938 Peachtree Rd., N.W.,
Atlanta, Ga.
Diner, Wilma Canada, a.r.p. *Path.* 1951; r.p. *R.* 1954
Univ. of Arkansas Med. Center,
Little Rock, Ark.
DINSMORE, P. R., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1961
McLean Hosp., Belmont
DINSMORE, R. E., a.r.; a.r.p. *R.* 1961 M. G. H.
Ditmore, H. B., Jr., *S.* 1954; a.r.s. 1958
Children's Memorial Hosp., Chicago, Ill.
DOBSON, ROSEMARY C., a.r.p. *C.* (*C.* 1963) M. G. H.
Dodd, R. B., a.r.p. *An.* 1950
Washington Univ. Sch. of Med.,
St. Louis, Mo.
DODGE, P. R., n. and pediat.
M. G. H.
Dodge, R. S., a.r.s. *Or.* 1946
4767 Kahala Ave.,
Honolulu, Hawaii
Dodson, L. C., r.s. *P.H.* 1932
330 Allen, Owensboro, Ky.
Dohan, F. C., a.r.p. 1935
Hosp. of Univ. of Pennsylvania,
Philadelphia, Pa.
DOHLMAN, C-H., a. *Oph.*
Mass. E. & E. Inf.
Doisy, E. A., Jr., *M.* 1945
St. Louis Univ. Sch. of Med.,
St. Louis, Mo.
Dole, K. L., *E.S.* 1917
1680 Sherwood Rd., San Marino,
Calif.
Dole, V. P., Jr., *E.M.* 1941
Rockefeller Inst. Med. Res.,
66th and York Ave.,
New York, N. Y.
Donaghy, R. M. P., *N.S.* 1939; r.s. *N.S.* 1942
Mary Fletcher Hosp.,
Burlington, Vt.
Donald, J. H., *M.* 1947; a.r.p. 1948
Burns Bldg., Colorado Springs, Colo.
DONALDSON, D. D., a.s. *Oph.*
Mass. E. & E. Inf.
DONALDSON, G. A., v.s. (*E.S.* 1938); r.s. 1942 M. G. H.
Donnelly, E. W., r.p. *R.* 1961
Georgia Baptist Hosp., Atlanta, Ga.
Donner, R., a.r.p. *Path.* 1957
Van Breestraat 108,
Amsterdam Z, Holland
DONOHUE, J. P., sr. a.r.s. U.
M. G. H.
Donovan, J. F., sr. r.s. *Or.* 1957
85 Jefferson, Hartford, Conn.
Drachman, D. A., r.p. *N.* 1960
Northwestern Univ. Med. Sch.,
Chicago, Ill.
Drake, E. H., a.r.s. 1945
18 Bramhall, Portland, Maine
Drake, T. G., a.r.p. 1937
114 N. Taylor Ave., St. Louis, Mo.
DREIER, T., Jr., r.p. *Psychiat.* (*McL.*); a.r.p. *Psychiat.* 1963
McLean Hosp., Belmont
Dresel, R. L., *Or.* 1921
37 Calhoun Ter.,
San Francisco, Calif.
Drewry, G. R., *M.* 1953
1 Davis Blvd., Tampa, Fla.
DREYFUS, P. M., assoc. n.; a.n. (*McL.*); r.p. *N.* 1955 M. G. H.
DREYFUSS, J. R., assoc. r.
Zero Emerson Pl.

DRISCOLL, R. A., clin. asso. *C.* 1961 408 Granite Ave., Milton

DROOKER, J. C., s. *Otolar.* 1961 285 Commonwealth Ave.

DRORBAUGH, J. E., clin. assoc. *C.* 1961 454 Brookline Ave.

Duda, G. A, r.p. *Psychiat.* (*McL.*) 1961 McLean Hosp., Belmont

DUFF, A. W., a.r.p. *Path.* M. G. H.

Duffy, R. J., r.p. *Psychiat.* (*McL.*) 1935 National Bank of West Virginia Bldg., Wheeling, W. Va.

DUGGAN, J. A., clin. assoc. *C.* 1961 721 Pleasant, Worcester

DUHL, F. J., a. psychiat. M. G. H.

Dulin, J. W., *Path.* 1933 Dey Bldg., Iowa City, Iowa

DUMONT, M. P., r.p. *Psychiat. (McL.)* McLean Hosp., Belmont

DUNBAR, R. W., c.r.p. *An.* M. G. H.

Duncombe, A. L., *E.M.* 1934 336 Pleasant, Brockton

Dunn, E., a.r.s. 1956 901 Harrison, Syracuse, N. Y.

Dunn, Fa-Chi, a.r.p. *D.* 1954 Kaiser Foundation Hosp., Oakland, Calif.

Dunn, W. L., a.r.p. *Path.* 1960 University of British Columbia, Vancouver, B. C., Canada

Durno, E. R., *E.S.* 1929 2512 E. Main, Medford, Oreg.

D'Urso, J. J., r.p. *D.* 1944 301 Essex, Lawrence

Duxbury, J. H., r.s. *U.* 1960 625 Fort, Victoria, British Columbia, Canada

Dwight, R. W., *W.S.* 1931 Vet. Adm. Hosp., 150 S. Huntington Ave., Jamaica Plain

Dwyer, J. H., a.r.p. *C.M.* 1956; r.p. *Psychiat.* (*McL.*) 1958 5025 Castleman, Pittsburgh, Pa.

DYER, E. C., clin. assoc. *C.* 1180 Beacon, Brookline

DYKES, M. H. M., a. *An.* M. G. H.

EASTON, M. T., s. *Oph.* 70 Carlton, Brookline

Eaton, R. G., a.r.s. *Or.* 1961 Children's Med. Center

EBERT, R. H., c. *M.* M. G. H.

EBISUZAKI, K., a. biochem. *Biochem. Res.* M. G. H.

Edelman, G. M., *M.* 1955 Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

Edelstein, L. M., a.r.p. *D.* 1962 Dept. of Biochem., Brandeis Univ., Waltham

Edgelow, A. F. G., *W.S.* 1921 130 Maple, Springfield

Edmonds, H. W., r.p. *Path.* 1942 110 Irving, N.W., Washington, D.C.

Edmunds, L. H., Jr., *S.* 1957; r.s. 1963 Mason Clinic, 1118 9th Ave., Seattle, Wash.

Edsall, G., *E.M.* 1936 Inst. of Labs., Mass. Dept. of Public Health, 375 South, Jamaica Plain

Edwards, W. S., *W.S.* 1946; a.r.s. 1952 Med. Coll. of Alabama, Birmingham, Ala.

EFRON, MARY L., a. *N.* M. G. H.

EGBERT, L. D., a. an. M. G. H.

Egel, N., r.s. *Or.* 1938 797 Elmwood Ave., Rochester, N. Y.

EGER, W. H., a. psychiat. 80 E. Concord

Egloff, F. R. L., r.p. *Psychiat.* 1951 31 Main, Farmington, Conn.

Ehrenkranz, N. J., *M.* 1950; r.p. 1954 Univ. of Miami Sch. of Med., Miami, Fla.

Eiseman, B., *E.S.* 1943 Univ. of Kentucky Med. Sch., Lexington, Ky.

ELDRED, S. H., assoc. psychiat. (*McL.*) McLean Hosp., Belmont

Eldredge, J. H., a.r.s. *Or.* 1960 66 Lewis Bay Rd., Hyannis

ELDREDGE, L. L., Jr., assoc. pediat.; a.r.p. *C.M.* 1951 215 Main, Hingham

Eliel, L. P., *E.M.* 1942 Oklahoma Med. Res. Inst., Oklahoma City, Okla.

Eliot, C. R., a.r.p. *C.* 1963 Boston City Hosp.

Ellenberg, J., r.p. *Psychiat.* (*McL.*) 1962 Albert Einstein Coll. of Med., Bronx, N. Y.

Ellery, S. W., *E.S.* 1943 1090 Atlantic Ave., Long Beach, Calif.

ELLETT, W. H., a. physicist *M.* M. G. H.

Elliot, H. L., r.p. *An.* 1942 Chestnut Hill, Harlan, Ky.

Elliott, J. A., Jr., *M.* 1945
1012 Kings Dr., Charlotte, N. C.
ELLIS, D. S., p. (*E.M.* 1941)
M. G. H.
Ellis, Effie O., *C.M.* 1951; a.r.p. *C.M.* 1952
Provident Hosp. and Free Dispensary, Baltimore, Md.
Ellis, L. B., *E.M.* 1928
319 Longwood Ave.
Elrick, H. E., *M.* 1944; a.r.p. 1947
Vet. Adm. Hosp., Denver, Colo.
Embree, L. J., a.r.p. *N.* 1962; a.r.p. *Path.* 1963 M. G. H.
EMERSON, G. F., clin. assoc. *S.* (*E.S.* 1939); r.s. 1942
62 Columbian, S. Weymouth
EMPSON, DORA R., j.a.r.p. *C.*
M. G. H.
ENDEE, C. H., dn.s. 6 Marlborough
ENGEL, L. L., biochem. *M.* M. G. H.
ENGELMAN, K., r.p. (*M.* 1960)
M. G. H.
ENGLAND, A. C., Jr., a. *N.*
M. G. H.
Enterline, J. D., *E.S.* 1943; j.r.s. 1944
Kings View Hosp., Reedley, Calif.
Eppright, R. H., a.r.s. *Or.* 1955
1803 Calumet, Houston, Tex.
ERVIN, F. R., psychiat. M. G. H.
ESSEMBER, L. J., assoc. pediat.; a.r.p. *C.M.* 1953 25 Conant, Danvers
ESSIG, A., a. *M.* M. G. H.
Esslinger, J. O., a.r.s. *Or.* 1952
622 N. Woodward Ave., Birmingham, Mich.
ESTES, J. W., *Path.* M. G. H.
EUSTIS, R. S., *Bd. of Cons.* (*W.M.* 1912 and *C.M.* 1913)
Hancock, N. H.
Evans, Richard R., *Path.* 1944
Cleveland Clinic, 2020 E. 93rd, Cleveland, Ohio
EVANS, ROBLEY D., cons. *Physics*
M. I. T., Cambridge
EVANS, R. E., *Dn. M.* M. G. H.
Evans, S. S., *E.S.* 1945; a.r.s. 1950
619 S. Broadway, McAllen, Tex.
Everett, H. C., III, a.r.p. *Psychiat.* 1958
109 Chestnut, Madison, Wis.
Ewell, J. W., *W.M.* 1937
Dept. of Hygiene and Health, Yale Univ., New Haven, Conn.
Ewer, E. G., *Or.* 1936
419 30th, Oakland, Calif.
Exley, M. M., r.s. *U.* 1938
Wainwright Bldg., Norfolk, Va.

Eyler, W. R., *C.M.* 1943; r.p. *R.* 1949
Henry Ford Hosp., Detroit, Mich.
Fairlie, C. W., Jr., *W.M.* 1942; r.p. 1947
85 Jefferson, Hartford, Conn.
Fang, H. C.-H., a.r.p. *Psychiat.* 1952
Univ. of Alabama Med. Center, Birmingham, Ala.
FARKAS, R. W., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont
Farmer, D. A., *W.S.* 1943
203 Commonwealth Ave.
FARNSWORTH, D. L., p. (*W.M.* 1935) 75 Mount Auburn, Cambridge
FARRISEY, RUTH M., exec. o. *M. G. H. Clin.* (*S.N.* 1938)
M. G. H.
Faulkner, J. M., *E.M.* 1925
Fleming Law Bldg., Boulder, Colo.
Faust, L. W., r.s. *U.* 1924
Morrison Lake Gardens, Saranac, Mich.
Fawcett, D. W., *W.S.* 1943
H. M. S.
FAXON, H. H., *Bd. of Cons.* (*E.S.* 1927); r.s. *E.S.* 1928
Vet. Adm. Hosp., 150 S. Huntington Ave., Jamaica Plain
FAXON, N. W., dir. emeritus (*S.S.* 1906) W. Falmouth
Fay, G. F., a.r.s. *Or.* 1957
1180 Beacon, Brookline; Concord Med. Center, Concord
Fay, J. H., *E.M.* 1929 226 Marlborough
FEARER, N. H., a. pediat. (*C.M.* 1957); a.r.p. *C.M.* 1958
2 Orchard Lane, Danvers
FEDERMAN, D. D., a. p. (*M* 1954); a.r.p. 1955 M. G. H.
Feingold, M., a.r.p. *C.* 1963
Boston City Hosp.
Fennell, R. H., Jr., sr.r.p. *Path.* 1949
1015 Gilchrest, Pittsburgh, Pa.
Ferguson, A. B., Jr., a.r.s. *Or.* 1950
Children's Hosp., Pittsburgh, Pa.
FERGUSON, E. L., clin. assoc. *S.* (*S.* 1954); a.r.s. 1959 159 Essex, Holyoke
Ferguson, I. A., Jr., *S.* 1953; a.r.s. 1959
1364 Clifton Rd., N. E., Atlanta, Ga.
Ferguson, J. J., Jr., *M.* 1951; r.p. 1955
516 Westminster Ave., Swarthmore, Pa.

Ferguson, L. A., *M.* 1961
Univ. of Chicago Sch. of Med., Chicago, Ill.

Fern, D. J., a.r.p. *Psychiat.* 1961; r.p. *Psychiat.* (*McL.*) 1962 M. G. H.

FERRIS, B. G., cons. *M.*
Harvard Sch. of Public Health

FIASCONE, A. D., a. *Pediat.*
1 Salem, Wakefield

Field, J. B., *M.* 1952; r.p. 1954
Univ. of Pittsburgh Sch. of Med., Pittsburgh, Pa.

Field, P., a.r.s. 1962
22 O'Connor, Sudbury, Ontario, Canada

FIELD, R. A., a.p. (*M.* 1950); c.r.p. 1955 M. G. H.

FIENBERG, R., clin. assoc. *Path.*
Beverly Hosp., Beverly

Finck, A. J., a.r.p. *An.* 1949
Beth Israel Hosp.

Findlay, F. M., *E.S.* 1924
San Manuel Copper Corp. Hosp., San Manuel, Ariz.

Fine, J., a.r.s. 1927
330 Brookline Ave.

FINESINGER, A. L., a. *Psychiat.*
14 Parkman, Brookline

Finkenstaedt, J. T., *M.* 1947; r.p. 1949
Cornell Univ. Med. Coll., New York, N. Y.

Finlayson, N. B., a.r.p. *Path.* 1960
University of California Hosp., San Francisco, Calif.

Finley, K. H., *W.M.* 1934; r.p. *N.* 1936
450 Sutter, San Francisco, Calif.

Firminger, H. I., sr.r.p. *Path.* 1947
Univ. of Maryland Sch. of Med. and Coll. of Physicians and Surgeons, Baltimore, Md.

First, R. A., a.r.s. *Or.* 1964
Children's Med. Center

Fischberg, B. W., r.p. *Psychiat.* (*McL.*) 1961
18 Moore, Belmont

Fischer, J. E., *S.* 1962; a.r.s. 1963
National Inst. of Health, Bethesda, Md.

Fish, J. E., *E.S.* 1930; r.s. *E.S.* 1932
Lahey Clinic

FISHER, C. M., n. and assoc. n.p. M. G. H.

Fisher, Mary S., *M.* 1949
Philadelphia Gen. Hosp., Philadelphia, Pa.

Fishman, R. A., r.p. *N.* 1950
Neurological Inst., 710 W. 168th, New York, N. Y.

Fitch, R. R., *W.M.* 1904
Northeast Harbor, Maine

Fite, E. H., *E.S.* 1926
201 S. 36th, Muskogee, Okla.

FITZHUGH, G., *Bd. of Cons.*
330 Dartmouth

FITZPATRICK, T. B., c. *D.* M. G. H.

FIUMARA, N. J., clin. assoc. *D.*
Dept. of Public Health, 15 Ashburton Pl.

FLACKE, Joan W., a.r.p. *An.*
1 Emerson Pl.

Flagg, J. A., a.r.p. *An.* 1955
Bridgeport Hosp., Bridgeport, Conn.

Flanagan, N. B., a.r.p. *Psychiat.* 1940
203 Grove, Wellesley

FLAX, M. H., a. path. M. G. H.

FLEMING, T. C., a. *N.*; 1961
208 Beacon

Flood, W. E., a.r.p. *D.* 1942
Med. Arts Bldg., Fort Worth, Tex.

Flook, S. E., *Or.* 1940
137 N. Main, Dayton, Ohio

Florence, D. W., r.s. *Or.* 1960
4613 41½ Ave., N., Minneapolis, Minn.

Floyd, C., *W.M.* 1904
55 Appleton, Cambridge

FLYNN, J. G., clin. assoc. *C.* (*C.M.* 1943); a.r.p. *C.M.* 1947
84 Highland Ave., Salem

FLYNN, R. E., a. *N.*
736 Cambridge, Brighton

FOLCH-PI, J., dir. *Sc. Res.* (*McL.*)
McLean Hosp., Belmont

Foldes, F. F., r.p. *An.* 1943
Montefiore Hosp., New York, N. Y.

FOLEY, F. D., r.p. *Path.* M. G. H.

Foley, T. M., *Or.* 1915
140 Quince, San Diego, Calif.

FOLKMAN, M. J., a.r.s. (*S.* 1958) M. G. H.

FOLLENSBY, EDNA M., cons. a. immunol. *M.* M. G. H.

Folsom, H. F., *W.M.* 1931
West Townshend, Vt.

FORBES, A., cons. *Neurophysiol.*
c/o J. M. Forbes and Co., 199 Washington

FORBES, ANNE P., a.p. M. G. H.

Forbes, Vassilike A.-C., *C.M.* 1956
Choate Sch., Wallingford, Conn.

Ford, A. B., *M.* 1950; a.r.p. 1952
Benjamin Rose Hosp., Cleveland, Ohio

FORGET, B. G., *M.* M. G. H.
Fornshell, R. P., sr.r.s. *Or.* 1958
85 Osborne, Danbury, Conn.
FORRANT, HELEN, exec. a. (*S.N.* 1930) M. G. H.
Fort, F. L., *Or.* 1922
1022 Park, Jacksonville, Fla.
Foster, F. D., past a. dir.
Maricopa County Gen. Hosp., Phoenix, Ariz.
FOSTER, G. S., a.p. (*M.* 1952); a.r.p. 1953 M. G. H.
Fowler, C. B., *Or.* 1929
526 Soquel Ave., Santa Cruz, Calif.
Fowler, D. M., *E.S.* 1946
Cove, Duxbury
Fox, B. M., a.r.s. *U.* 1963
Vet. Adm. Hosp., 150 S. Huntington Ave., Jamaica Plain
FRALEY, E. E., a.r. *U.* (*S.* 1962); a.r.s. 1963 M. G. H.
Frame, B., *M.* 1949; r.p. 1955
Henry Ford Hosp., Detroit, Mich.
Francis, L., a.r.p. *An.* 1950
3022 Breckenwood Dr., Lexington, Ky.
FRANK, T., a. *Pediat.;* a.r.p. *C.M.* 1953 134A Brattle, Cambridge
FRANKEL, F. H., a. psychiat.
M. G. H.
FRANKLIN, W., a.p.
100 Country Club Rd., Newton Centre; Zero Emerson Pl.
Franseen, C. C., *W.S.* 1932
1180 Beacon, Brookline
Franseen, E. F., j.r.s. *Or.* 1947
146 Chestnut, Springfield
FRANTZ, A. G., a. *M.* M. G. H
Franz, E. M., a.r.s. *Or.* 1948
1750 Race, Denver, Colo
FRAZEE, J. R., s. *Otolar.*
1180 Beacon, Brookline
FRAZIER, H. S., a. p. (*M.* 1954); a.r.p. 1955 M. G. H.
FREEDBERG, I. M., a. *D.*; a.r.p. *D.* 1960 Beth Israel Hosp.
Freedman, H. J., *C.M.* 1928
454 Brookline Ave.
Freeman, D. W., *C.M.* 1935
112 N. Burnett Ave., Denison, Tex.
Freeman, N. E., r.s. *W.S.* 1935
263 Molino Ave., Mill Valley, Calif.
FREESE, C. G., Jr., a. *Oph.*
328 Washington, Wellesley Hills
Freiberg, J. A., *Or.* 1926
2939 Vernon Pl., Cincinnati, Ohio
FREINKEL, RUTH K., a. d.; r.p. *D.* 1957 M. G. H.
FREMONT-SMITH, M., hon. p.
12 Hereford
FREYMANN, J. G., clin. assoc. *M.* (*M.* 1947); a.r.p. 1951
Memorial Hosp., 119 Belmont, Worcester
FRIED, M. A., psychol. 50 Beacon
FRIEDLICH, A. L., assoc.p. (*M.* 1943); r.p. 1948 Zero Emerson Pl.
Friedman, C. F., *C.M.* 1923
400 Rugby Rd., Brooklyn, N. Y.
FRIEDMAN, E., a. *Oph.*
Mass. E. & E. Inf.
Friedman, L. J., *M.* 1956
Beth Israel Hosp.
Friedman, S. B., *C.M.* 1958; c.r.p. *C.M.* 1960
Univ. of Rochester Sch. of Med. and Dn., Rochester, N. Y.
Fritz, W. F., *M.* 1950; a.r.p. 1951
2 W. University Parkway, Baltimore, Md.
FROMER, J. L., clin. assoc. *D.*
605 Commonwealth Ave.
Frost, H. M., *W.S.* 1915
Friendship, Maine
Frost, R. G., a.r.p. *An.* 1961
4th and Randall Way, Box 1253, Carmel, Calif.
Fu, Wen Shou, *C.M.* 1926
address unknown
Fuchs, P., *W.S.* 1942
3a Ave. 7-34, Guatemala City, Guatemala
Fuldner, R. V., *Or.* 1939
178 Sherman Ave., New Haven, Conn.
Fuller, Henry, *W.M.* 1929
210 Hibriten Way, Lakeland, Fla.
Funsch, R. E., a.r.s. *Or.* 1951
950 Francis Pl., Clayton, Mo.; 508 N. Grand Ave., St. Louis, Mo.
Fuson, W. A., r.p. *R.* 1927
905½ Main, Trenton, Mo.
Gabuzda, T. G., *M.* 1956; a.r.p. 1957
Peter Bent Brigham Hosp.
GADA, P. H., *S.* M. G. H.
Gaffney, T. E., a.r.p. 1959
Cincinnati General Hosp., Cincinnati, Ohio
GALBRAITH, N. F., Jr., a.r.s.
M. G. H.
Gall, E. A., r.p. *Path.* 1937
Cincinnati Gen. Hosp., Cincinnati, Ohio

Gamble, C. J., *W.M.* 1922
73 Adams, Milton
Gammon, W. M., *C.M.* 1932
Central Bldg.,
Bristol, Tenn.
Gamsu, D., r.s. *N.S.* 1948
Florence Nightingale Private
Hosp., Johannesburg, South Africa
GANEM, E. J., clin. assoc. *U.*
301 Essex, Lawrence
GANZ, R. N., pediat. (*C.M.* 1925)
M. G. H.
GARCELON, G. G., clin. assoc. *S.*
701 Washington, Newtonville
GARCIA, C.-R., a.s. 266-A Beacon
GARDELLA, J. W., a.p. (*M.* 1945);
a.r.p. 1946 H. M. S.
Gardiner, W. J., r.p. *E.M.* 1929
Toronto Gen. Hosp.,
Toronto, Canada
Gardner, G. E., *C.M.* 1938; r.p. *C.M.*
1939
Judge Baker Guidance Center,
295 Longwood Ave.
Gardner, L. I., *C.M.* 1944; a.r.p. *C.M.*
1947 Upstate Med. Center Hosp.,
Syracuse, N. Y.
GARLAND, J., hon. p. (*C.M.* 1919
and *E.M.* 1921)
8 The Fenway
GARRAN, F. W., Jr., clin. assoc. *S.*
(*S.* 1951); a.r.s. 1955
40 Lewis Bay Rd.,
Hyannis
Garren, L., a.r.p. 1962
National Inst. of Health,
Bethesda, Md.
GARRETT, J. W. D., assoc. an. (*An.*
1940); r.p. *An.* 1941 280 Beacon
GARREY, W. E., clin. assoc. *S.* (*E.S.*
1933); r.s. 1936
585 Main, Malden
Garrigues, H. B., *W.S.* 1939; a.r.s.
W.S. 1940 1301 Columbia,
Seattle, Wash.
Garrity, R. W., sr.r.s. *N.S.* 1950
3300 6th Ave.,
San Diego, Calif.
Gashgai, A., *S.* 1958; a.r.s. 1963
Bagh-Amjirim Emanvadeh Shassem
Pajrish, Tehran, Iran
Gaston, L. W., *M.* 1954; r.p. 1956
University Hosp., Seattle, Wash.
GATES, P. H., a. psychiat.; r.p.
Psychiat. (*McL.*) 1942
51 Brattle, Cambridge
GAULD, A. G., clin. assoc. *Obst.* (*E.S.*
1934) Deconess Med. Office
Bldg., 110 Francis
Gaunt, F. P., *W.S.* 1913
203 W. Cedar Ave.,
Webster Groves, Mo.
Gauthier, Jacqueline, a.r.p. *Psychiat.*
1957; r.p. *Psychiat.* (*McL.*) 1959
Heartbreak Rd., Ipswich
Gay, L. N., *E.M.* 1918
1114 St. Paul, Baltimore, Md.
GEHRING, J. R., a. *Oph.*
9 Central, Lowell
GELEHRTER, T. D., *M.* M. G. H.
Gens, J. P., r.s. *U.* 1943
71 East Ave., Norwalk, Conn.
Gentry, R. W., *E.S.* 1943
65 N. Madison Ave.,
Pasadena, Calif.
George, H. L., Jr., *C.M.* 1929; r.p.
C.M. 1930 320 Holcomb,
Watertown, N. Y.
GEPHART, F. T., v.s. (*W.S.* 1942);
r.s. 1948 M. G. H.
GERGELY, J., assoc. biochem. *N.*
M. G. H.
Germanos, K., a.r.s. *Or.* 1963
abedlwahab-el Inklizi,
Beirut, Lebanon
Gevalt, F. C., Jr., a.r.p. 1943
Sharon Clinic, Sharon, Conn.
Gibbs, R. F., a.r.p. *An.* 1962
Boston Lying-in Hosp.
Gibson, G. C., *W.S.* 1944
Wesson Maternity Hosp.,
Springfield
GIBSON, JAMES M., a.r.p. *Path.*
(*Path.* 1962) M. G. H.
Gibson, John G., a.r.p. *Psychiat.* 1951
Dept. of Mental Health,
Queen's Univ. of Belfast,
Belfast, Northern Ireland
Gibson, L. E., r.s. *U.* 1926
831 James, Syracuse, N. Y.
Giddings, W. P., *W.S.* 1939; r.s. 1946
528 Main, Bennington, Vt.
Gilbert, A. C., h.s. *U.* 1923
Vet. Adm. Hosp., Walla Walla,
Wash.
Giles, R. B., Jr., a.r.p. 1956
1719 Pacific Ave., Dallas, Tex.
GILL, B. F., a. psychiat.
168 Homer, Newton Centre
Gillies, A. J., a.r.p. *An.* 1952
Strong Memorial Hosp.,
Rochester, N. Y.
Ginandes, S. C., *C.M.* 1952
134 Mount Auburn, Cambridge

Gittes, R. F., *S.* 1961; a.r.s. 1962; a.r.s. *U.* 1963.
National Inst. of Health, Bethesda, Md.

Glendy, Margaret Moriarty, *C.M.* 1932; r.p. *C.M.* 1934
3806 Heatherton Rd., S. W., Roanoke, Va.

Glendy, R. E., a.r.p. 1934
3806 Heatherton Rd., S. W., Roanoke, Va.

Glenn, W. W. L., a.r.s. 1946
Yale Univ. Sch. of Med., New Haven, Conn.

GLICKLICH, E. A., a.d.
403 Commonwealth Ave.

GLIMCHER, M. J., a.s. *Or.*; a.r.s. 1953; sr.r.s. *Or.* 1956 M. G. H.

GLINES, G. A., a. pediat.
8 Porter, Melrose

Globus, G. G., r.p. *Psychiat.* (*McL.*) 1961 Boston Univ.-Mass. Memorial Hosp. Med. Center

Glotzer, D. J., *S.* 1953; acting a.r.p. *Path.* 1959; a.r.s. 1960
New Eng. Med. Center

Glover, D. M., *W.S.* 1922
10525 Carnegie Ave., Cleveland, Ohio

Godley, Anne F., *M.* 1949; a.r.p. 1950
21 Sargent Crossway, Brookline

Goeringer, C. F., *Or.* 1940
209 S. 63rd, Philadelphia, Pa.

Goettsch, Elvira, *C.M.* 1931
225 N. Mountain View Drive, Chula Vista, Calif.

Goetz, F. C., *M.* 1947; c.r.p. 1954
Univ. of Minnesota Hosp., Minneapolis, Minn.

GOFFIN, F. B., a. *Otolar.*
Mass. E. & E. Inf.

GOLD, G. N., *S.* M. G. H.

GOLDE, PEGGY J., a. sociol.
M. G. H.

Goldberg, A. H., a.r.p. *An.* 1960
National Inst. of Health, Bethesda, Md.

Goldberg, L. I., *M.* 1957; a.r.p. 1958
Emory Univ., Emory University, Ga.

Goldblatt, M. E., *E.M.* 1926
975 Park Ave., New York, N. Y.

Golden, R., h.p. *R.* 1921
Univ. of California at Los Angeles Med. Center, Los Angeles, Calif.

GOLDEN, T. S., clin. assoc. *C.*
250 Franklin, Framingham

Goldfinger, S. E., *M.* 1961; a.r.p. 1962
National Inst. of Health, Bethesda, Md.

Goldsmith, L. H., *C.M.* 1923
220 College Ave., Athens, Ga.

Goldthwait, J. C., a.r.p. *Path.* 1948
1180 Beacon, Brookline

Gomatos, P. J., r.p. 1959
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

Goodale, F., Jr., a.r.p. *Path.* 1954
Dartmouth Med. Sch., Hanover, N. H.

Goodson, W. H., Jr., r.p. *Psychiat.* (*McL.*) 1963 M. G. H.

Gordon, A. M., *C.M.* 1929
4406 Greenwood Dr., Des Moines, Iowa

Gordon, E. S., *Path.* 1935
University Hosp., Madison, Wis.

GORDON, J. E., cons. *Prev. M.*
Harvard Sch. of Public Health

Gordon, P. S., *Dn.* 1955
341 Main, W. Haven, Conn.

Gore, C. P., a.r.p. *Psychiat.* 1952
Dunollie, Station Rd., Menston, England

Gorman, Mary L. Gannon, r.p. *N.P.* 1947 159 Main, Kingston, N. Y.

Gorman, Rosemary V., a.r.p. 1945
626 Westminster Ave., Elizabeth, N. J.

Gorrell, J. E., past a. dir.
Electronic Associates, Inc., N. Long Branch, N. J.

Gottschalk, C. W., *M.* 1946; r.p. 1952
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

GOULIAN, M., a. *M.*; r.p. 1961 M. G. H.

Graeser, J. B., *W.M.* 1929
298 Grand Ave., Oakland, Calif.

Graham, C. P., *E.S.* 1935 and *N.S.* 1936
304 N. 11th, Wilmington, N. C.

GRAHAM, J. R., clin. assoc. *M.* (*W.M.* 1936) Faulkner Hosp., Jamaica Plain

Grant, G. J. M., r.p. *D.* 1932
9 Central, Lowell

Grant, L. H., a.r.p. 1957
New York University Medical Center, New York, N. Y.

GRANT, W. M., assoc. s. *Oph.*
Mass. E. & E. Inf.

GRAY, B. C., clin. assoc. *D.*
3 Seaward Rd., Wellesley Hills

GRAY, F. C., *Trustee* and *President of the Corporation* 10 P. O. Sq.

*Graybiel, A., *E.M.* 1932
U.S. Naval Aviation Med. Center, Pensacola, Fla.

Greeley, H. P., *W.M.* 1910
1901 Monroe, Madison, Wis.

GREEN, S., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

GREEN, T. H., Jr., assoc. v.s. (*W.S.* 1947); r.s. 1953 226 Marlborough

GREENBERG, J. J., r.s. (*S.* 1957)
M. G. H.

Greene, D. C., *C.M.* 1940
1302 Pennsylvania Ave., Hagerstown, Md.

Greene, G. S., a.r.s. *Or.* 1948
85 Jefferson, Hartford, Conn.

Greene, N. M., a.r.p. *An.* 1951
Grace-New Haven Community Hosp., New Haven, Conn.

Greene, Richard W., *M.* 1945
32 Johnson Ave., Newark, N. J.

Greene, Robert G., a.r.s. *Or.* 1953
66 S. Fullerton Ave., Montclair, N. J.

Greenhill, M. H., r.p. *Psychiat.* 1939
233 E. 69th, New York, N. Y.

Greenough, J., *W.S.* 1920
Hartwick Rd., Cooperstown, N. Y.

Greenwood, F. A. H., a.r.s. *Or.* 1959
Montreal Gen. Hosp., Montreal, Canada

GREEP, J. M., a.r.s. M. G. H.

GREGG, W. I., clin. assoc. *S.* (*W.S.* 1935) 1269 Beacon, Brookline

Gregory, H. E., *C.M.* 1942
N. Main, Wolfeboro, N. H.

Gregory, R. A., r.p. *N.* 1933
Provincial Hosp., Lancaster, New Brunswick, Canada

Grier, R. S., *E.M.* 1942; a.r.p. 1943
4925 Trinity Dr., Los Alamos, N. M.

GRIESEMER, R. D., a.d.; sr.r.p. *D.* 1949 Peter Bent Brigham Hosp.; M. G. H.

GRIFFEY, L. E., a.s. *Otolar.*
Mass. E. & E. Inf.

GRIFFITH, D. P., *S.* M. G. H.

Griggs, J. B., *C.M.* 1929
Breezy Hill Rd., Canton, Conn.

GRILLO, H. C., assoc. v.s. (*S.* 1948); r.s. 1955 M. G. H.

GRINER, P. F., r.p. (*M.* 1960)
M. G. H.

Griscom, N. T., r.p. *R.* 1963; *C.M.* 1957; a.r.p. *C.M.* 1958
Children's Med. Center

GROSS, J., assoc. biol. *M.* M. G. H.

Grossman, M. S., *C.M.* 1958; a.r.p. *C.M.* 1959 158 Ligon, Elliott City, Md.

GROVE-RASMUSSEN, M., dir. of *Blood Bank and Transfusion Service* M. G. H.

Grover, J. W., *S.* 1957; a.r.s. 1959
Free Hosp. for Women, Brookline

Groves, L. K., *W.S.* 1947
Cleveland Clinic Foundation, 2020 E. 93rd, Cleveland, Ohio

Grunebaum, H. U., r.p. *Psychiat.* (*McL.*) 1960 McLean Hosp., Belmont

Guardo, J. L., *N.S.* 1930; a.r.s. *N.S.* 1931 5 Aldwin Rd., Roslindale

GUILD, H. R., *Trustee* and *Vice President* and *Treasurer of the Corporation* 294 Washington

Guller, E. I., *C.M.* 1924
Croghan, N. Y.

Gundersen, A. Erik, *S.* 1956; a.r.s. 221 Benfieldside Rd., Shotley Bridge, Durham, England

Gundersen, Adolf L., *S.* 1950; a.r.s. 1955 Gundersen Clinic, La Crosse, Wis.

Gundersen, Sigurd B., Jr., *S.* 1949; a.r.s. 1954 Gundersen Clinic, La Crosse, Wis.

Gundersen, Sven M., *E.M.* 1931
Hitchcock Clinic, Hanover, N. H.

Gundersen, T. E., r.p. *N.* 1941
Gundersen Clinic, La Crosse, Wis.

GURALNICK, W. C., a. oral s.
328 Washington, Wellesley Hills; 29 Commonwealth Ave.

GUTHRIE, A. D., Jr., a. *Pediat.*
13 Bradlee Rd., Medford

Guyton, A. C., *W.S.* 1943; a.r.s. 1946
University Med. Center, Jackson, Miss.

Haase, F., Jr., past a. dir.
Albany Med. Center Hosp., Albany, N. Y.

HABER, E., a. *M.* (*M.* 1957); r.p. 1962 M. G. H.

HACKETT, T. P., assoc. psychiat.
M. G. H.

HAESSLER, H. A., a. pediat.; a.r.p. *C.M.* 1960 M. G. H.

Hafter, S. Sheila, r.p. *Psychiat.* (*McL.*)
500 W. Montgomery Ave., Rockville, Md.

*Not in States and Cities section of this Directory

Haggart, G. E., *W.M.* 1920
Off Russell Mills Rd., Plymouth
HAGGERTY, R. J., a. pediat.
300 Longwood Ave.
HAGOPIAN, P .B., clin. assoc. *Psychiat.* M. G. H.
Haines, S. F., *W.M.* 1921
Mayo Clinic, Rochester, Minn.
*Hakala, T. R., *S.* 1962; a.r.s. 1963
Peace Corps, c/o U. S. Embassy, Lima, Peru
HAKOMORI, S., a. biochem. *M.* M. G. H.
Hale, C. H., sr. r.p. *R.* 1943
1200 E. Genesee, Syracuse, N. Y.
HALEY, W. D., a.s. *Oph.*
78 Church, Winchester
Hall, B., *M.* 1946
40 S. Clay, Hinsdale, Ill.
Hall, F. C., *E.M.* 1918
1180 Beacon, Brookline
Hall, H. D., *Dn.* 1958; a.r.s. *Dn.* 1959
Univ. of Alabama Med. Center, Birmingham, Ala.
Hall, M. G., *Path.* 1934 Orford, N. H.
Hall, R. G., *W.M.* 1910
731 S.E. 41st, Portland, Oreg.
Hall, T. C., a.r.p. 1954
35 Binney
HALLENBECK, D. F., Jr., a. psychiat. (*McL.*); r.p. *Psychiat.* 1949; sr. r.p. *Psychiat.* (*McL.*) 1951
McLean Hosp., Belmont
HALLGRIMSSON, J., r.p. *Path.* M. G.H.
HALLOWELL, P., assoc. an.; a.r.p. *An.* 1955 M. G. H.
Halsted, J. A., *W.M.* 1932
Vet. Adm. Hosp., Dearborn, Mich.
Halverstadt, D. B., *S.* 1961; a.r.s. 1962
Box 967, Shiprock, New Mexico
Hamilton, Harold H., r.s. *P.H.* 1933
70 Court, Plymouth
Hamilton, Howard B., *C.M.* 1945
764 S. Emerson Ave., Indianapolis, Ind.
Hamilton, R. DeL., *E.M.* 1904
223 High, Newburyport
Hamilton, T. S., past a. dir.
Hartford Hosp., Hartford, Conn.
HAMLIN, E., Jr., v.s. (*W.S.* 1936); r.s. *W.S.* 1939 M. G. H.
HAMLIN, H., a. *N.S.*; r.s. *N.S.* 1942
270 Benefit, Providence, R. I.; M. G. H.
HAMMOND, G. L., a.r.s. M. G. H.

*Not in States and Cities section of this Directory

Hammond, W., *Path.* 1929
36 Crane Rd., Scarsdale, N. Y.
Hand, D. W., *Or.* 1934
450 Sutter, San Francisco, Calif.
HANELIN, J., clin. assoc. *R.*
27 W. Central, Natick
Hanflig, S. S., *Or.* 1931
45 Pinehurst Rd., Belmont
Hansen, Robert H., a.r.p. *An.* 1957
286 Marion Dr., Baton Rouge, La.
HANSEN, ROBERT J., cons. *Or.*
M.I.T., Cambridge
Hanser, T. H., *E.M.* 1924
3701 Grandel Sq., St. Louis, Mo.
Haralambie, J. Q., *C.M.* 1936
17 N. Chatsworth Ave., Larchmont, N. Y.
Harder, H. J., a.r.p. *An.* 1952
Schwabinger Krankenhaus, München, Germany
HARDY, HARRIET L., assoc. p.
Med. Dept., M.I.T., Cambridge
HARDY, I. B., clin. assoc. *S.* (*E.S.* 1939); a.r.s. 1942
94 Russell, Waltham
HARGRAVES, ELEANOR R., exec. a. (*R.N.*) M. G. H.
Harper, D. T., Jr., *M.* 1963
Johns Hopkins Hosp., Baltimore, Md.
Harper, R. S., a.r.p. *Path.* 1958
Memorial Hosp., 119 Belmont, Worcester
HARRIS, EDDIE H., a.r.p. *Psychiat.* M. G. H.
HARRIS, EDWARD D., Jr., a.r.p (*M.* 1963) M. G.H.
Harris, H. P., Jr., *N.S.* 1936
1432 Post Rd., Fairfield, Conn.
Harris, W. Robert, a.r.s. *Or.* 1952
170 St. George, Toronto, Canada
HARRIS, WILLIAM H., a.s. *Or.*; sr. r.s. *Or.* 1959 266 Beacon
Harrison, Elizabeth R., *C.M.* 1928; r.p. *C.M.* 1929
255 Bradley, New Haven, Conn.
Harrison, M. B., *E.M.* 1938
2000 Van Ness Ave., San Francisco, Calif.
Harrison, T. S., a.r.s. 1959
Grace-New Haven Community Hosp., New Haven, Conn.
Harter, J. S., *W.S.* 1935
Med. Arts Bldg., Louisville, Ky.
Harting, D., *C.M.* 1947
National Inst. of Health, Bethesda, Md.

Hartwig, A. R., a.r.s. *Or.* 1948
490 Post, San Francisco, Calif.
Harty, J. E., r.p. *Psychiat.* (*McL.*) 1939
101 N. Main, Waterbury, Conn.
HARVEY, H. H., a. admin. (*McL.*)
McLean Hosp., Belmont
Harvey, R. B., *M.* 1946
251 Edwards, New Haven, Conn.
HARWOOD, R., assoc. p. (*W.M.* 1936) M. G. H.
Hashimoto, K., a.r.p. *D.* 1959
Boston Dispensary, 25 Bennet
Haswell, H. P., a.r.p. *An.* 1949
123 Mountain View Ave.,
San Rafael, Calif.
HATCH, FRANCIS W., *Associate Trustee* 462 Boylston
HATCH, FREDERICK T., a.p. M. G. H.
Hathaway, J. S., r.p. *E.M.* 1932
109 College, New Haven, Conn.
HAUSER, G., assoc. biochem. (*McL.*)
McLean Hosp., Belmont
Haut, A., *M.* 1950; r.p. 1953
Univ. of Arkansas Med. Center,
Little Rock, Ark.
Havemeyer, W. F., a.r.s. 1948
750 N. Country Club, Tucson, Ariz.
Hawes, C. H., *W.S.* 1931
1030 President Ave., Fall River
Hawes, L. E., *E.M.* 1939 and *C.M.* 1940; a.r.p. *R.* 1942
Faulkner Hosp., Jamaica Plain
Hawkes, R. S., *W.M.* 1933
47 Deering, Portland, Maine
Hawkins, R., r.s. *N.S.* 1948
571 Hamilton Ave.,
Palo Alto, Calif.
HAYCOX, J. A., assoc. psychiat. (*McL.*) McLean Hosp., Belmont
HAYDEN, E. P., *Bd. of Cons.;* h.s. *E.S.* 1923 249 Commonwealth Ave.
Hayden, J. W., a.r.s. *Or.* 1955
Gundersen Clinic, La Crosse, Wis.
HAYDEN, W. L., a. *Otolar.*
Mass. E. & E. Inf.
Hayes, D. R., *E.S.* 1939
281 State, Springfield
Haynes, Ruth C., a.r.p. *An.* 1955
4857 Green Acres Drive,
Columbus, Ohio
Haynes, W. M., *S.* 1952; a.r.s. 1956
131 S. Grant Ave., Columbus, Ohio
HAZARD, G. W., a.r.p. *C.* M. G. H.
HEAD, J. M., a.s. (*S.* 1951); a.r.s. 1957 Zero Emerson Pl.
Healey, J. C., r.p. *Psychiat.* (*McL.*) 1961 Mental Health Dept.,
State Capitol Bldg., Hartford, Conn.
Heath, C. W., *W.M.* 1928
Health Service, Tufts Univ.,
Medford
Heath, P., Jr., a.r.p. 1954
22 White, Rockland, Maine
Heath, R. D., a.r.s. *Or.* 1950
Lankenau Med. Bldg.,
Philadelphia, Pa.
Hebertson, W. M., r.p. *N.* 1957
975 E. 1st, South,
Salt Lake City, Utah
HEDBERG, S. E., a. *S.* (*S.* 1956); a.r.s. 1962 Zero Emerson Pl.
HEDLEY-WHYTE, J., a. *An.* M. G. H.
Heffron, R., *E.M.* 1931
The Commonwealth Fund,
1 E. 75th, New York, N. Y.
Heggie, J. F., *M.* 1956
20 Cleveland Ave.,
Glen Head, Long Island, N. Y.
HEILBRONN, Y. D., a.r.s. *N.S.* M. G. H.
HELFANT, M. H., a.r.s. *N.S.* M. G. H.
HELGESON, N. G. P., a.r.p. *Path.* M. G. H.
HELMAN, M. E., a.d.
1874 Beacon, Brookline
Helmholz, H. F., Jr., *W.M.* 1939
Mayo Clinic, Rochester, Minn.
HENDERSON, B. E., a.r.p. (*M.* 1963) M. G. H.
HENDREN, W. H., III, assoc. v.s. (*S.* 1953); r.s. 1958 M. G. H.
Hendrick, I., r.p. *Psychiat.* (*McL.*) 1932 84 Mount Vernon
Henley, T. F., *C.M.* 1939
7 E. 78th, New York, N. Y.
HENNEMAN, E., neurophysiol. *N.* M. G. H.
Hepburn, J. P., a.r.p. *An.* 1953
Milton Hosp., Milton
Hepburn, R. H., r.s. *U.* 1943
85 Jefferson, Hartford, Conn.
Herbst, A. L., *S.* 1960; a.r.s. 1962
Free Hosp. for Women,
HERM, R. J., a.s. *Oph.*
42 Weston, Waltham
Herman, A. E., r.p. *Psychiat.* (*McL.*) 1963 Beth Israel Hosp.
Hermann, G., *S.* 1955; a.r.s. 1961
1245 E. Colfax Ave., Denver, Colo.
HERMANN, H. T., a. psychiat. (*McL.*)
McLean Hosp., Belmont

Herrmann, J. B., *S.* 1958; a.r.s. 1962
Walter Reed Army Inst. of Research, Washington, D. C.

Herrera, R. E., *E.S.* 1943; a.r.s. 1946
c/o Herrera and Co., Inc., Guatemala City, Guatemala

Hershey, F. B., *E.S.* 1947; r.s. 1952
18 S. Kingshighway, St. Louis, Mo.

HERZAN, HELEN M., a. psychiat.
226 Pleasant, Arlington

HESLIN, D. J., a. *R.* M. G. H.

HESS, HELEN H., assoc. n.p. (*McL.*)
McLean Hosp., Belmont

Heyl, H. L., r.s. *N.S.* 1940
Dartmouth Med. Sch., Hanover, N. H.

Heyl, J. T., *W.M.* 1939
Phillips Exeter Acad., Exeter, N. H.

HIAM, E. W., *Associate Trustee*
75 Federal

Hiden, R. B., *W.M.* 1925
Silver Hill Foundation, New Canaan, Conn.

HIEBERT, C. A., clin. assoc. *S.* (*S.* 1952); r.s. 1958 18 Bramhall, Portland, Maine

Hiebert, J. M., *C.M.* 1933
1450 Broadway, New York, N. Y.

Hiett, Joan Kazanjian, r.p. *C.M.* 1959
1101 E. Pecan, Altus, Okla.

Higbee, D. R., *W.M.* 1925
1612 Tremont Pl., Denver, Colo.

Higgins, R. B., a.r.s. *U.* 1951
Univ. of Oregon Med. Sch.; Vet. Adm. Hosp., Portland, Oreg.

HILL, John M., a.s. *Oph.*
108 Bay State Rd.

Hill, Leonard W., *C.M.* 1935
78 Bank, Attleboro

Hill, Lewis W., *W.M.* 1915
319 Longwood Ave.

Hill, N. P., *M.* 1946; a.r.p. 1946
Truesdale Hosp., Fall River

HILL, W. R., clin. assoc. *D.* M. G. H.

Hills, H. M., Jr., *Or.* 1942
1308 Quarrier, East, Charleston, W. Va.

Hills, O. W., *M.* 1943
111 St. Matthews Ave., San Mateo, Calif.

HINCKLEY, R. H., a. *Oph.*
520 Commonwealth Ave.

Hinshaw, A. J., *E.S.* 1947
3155 Stagg Dr., Beaumont, Tex.

HIRSCH, L. S., a. *Otolar.*
42 Lincoln, Framingham

HIRSCH, O., hon. s.
186 Commonwealth Ave.

HIRSCHHORN, R. C., sr. a.r.s. *U.* M. G. H.

Hirschman, S. Z., *M.* 1962; a.r.p. 1963
National Inst. of Health, Bethesda, Md.

Hitchcock, J., *W.M.* 1921
39 Main, Concord

Hobson, L. B., *M.* 1944
Squibb Inst. Med. Res., 745 5th Ave., New York, N. Y.

Hochwalt, W. R., *Or.* 1931; r.s. *Or.* 1931 2300 Far Hills Ave., Dayton, Ohio

Hodges, T. W., *Or.* 1941
9323 Garland Rd., Dallas, Tex.

HODGSON, J. S., hon. s. (*W.S.* 1916); h.s. *W.S.* 1916 and *E.S.* 1920 1180 Beacon, Brookline

Hoeffel, G. N., *C.M.* 1922; h.p. *C.M.* 1923 30 Dean Rd., Brookline

Hofer, M. A., *M.* 1959; a.r.p. 1960
National Inst. of Health, Bethesda, Md.

Hoffer, A., *M.* 1962
Mass. Mental Health Center, 74 Fenwood Rd.

Hoffman, H. A., r.s. *U.* 1946
52 Brigham, New Bedford

Hoffman, Nancy Davis, a.r.p. *An.* 1960 1005 N.E. 125th, North Miami, Fla.

Hogan, J. F., *M.* 1949 and *C.M.* 1950; a.r.p. *C.M.* 1951
156 Broadway, Pawtucket, R. I.

Holbrook, A. A., *C.M.* 1933 and *E.M.* 1934 425 E. Wisconsin Ave., Milwaukee, Wis.

HOLDER, R., assoc. psychiat. (*M.* 1945); r.p. *Psychiat.* 1946
412 Beacon

Holihan, J. P., *E.S.* 1943; a.r.p. *An.* 1949 68 Salem, Andover

HOLLAND, D. J., Jr., clin. assoc. *Dn. M.* (*Dn.* 1938); a.r.s. *Dn.* 1947
1146 Beacon, Brookline

HOLLAND, JAMES G., assoc. psychol. *N.* M. G. H.

Holland, Jimmie Brockman, r.p. *Psychiat.* 1955
Edward J. Meyer Memorial Hosp., Buffalo, N. Y.

Hollander, J., a.r.p. *N.* 1963 M. G. H.

HOLMES, ESTELLE, exec. a. *B.M.* M. G. H.

HOLMES, J. A., clin. assoc. *S.* (*Path.* 1936 and *E.S.* 1938)
94 Russell, Waltham

HOLMES, L. B., *C.* M. G. H.

Holmes. R. B., r.p. *R.* 1950
Toronto Gen. Hosp., Toronto, Canada

Holmes, S. G., *C.M.* 1943
R.F.D. 4, Box 218-H, Pensacola, Fla.

Holt, C. L., *N.S.* 1938
29 Deering, Portland, Maine

Holt, W. L., Jr., r.p. *N.* 1937
Albany Med. Center Hosp., Albany, N. Y.

Holtz, A. I., *C.M.* 1958
National Inst. of Health, Bethesda, Md.

HOMANS, J., Jr., a. *M.* (*W.M.* 1942); a.r.p. 1946 1776 Beacon, Brookline

HOOPER, D. F., a. psychol. M. G. H.

Hopkins, C. E., a.r.p. *C.M.* 1948
1313 Fish Hatchery Rd., Madison, Wis.

Hopkins, F. S., *E.S.* 1919
146 Chestnut, Springfield

Hopkins, R. W., *S.* 1948; a.r.s. 1954
3395 Scranton Rd., Cleveland, Ohio

Hopkins, S. W., *E.S.* 1936
28 Orne, Marblehead

Hormell, R. S., *Or.* 1942
1152 Beacon, Brookline; 8 Porter, Melrose

Horn, C. E., *Or.* 1940; r.s. *Or.* 1942
2901 Capitol Ave., Sacramento, Calif.

Horwitz, W. H., r.p. *Psychiat.* (*McL.*) 1951 220 Bushkill, Easton, Pa.

HOUGHTON, H. E., Infection Control Officer *B.* M. G. H.

Houser, G. F., past a. dir.
26 Overlook Circle, New Rochelle, N. Y.

Hovsepian, Jeannette A., a.r.p. *R.* 1958
Northern Westchester Hosp., Mount Kisco, N. Y.

Howard, F. H., *C.M.* 1949; a.r.p. *C.M.* 1950
Dhahran Health Center, Dhahran, Saudi Arabia

Howard, H. H., *W.S.* 1914
Fishers Lane, Delray Beach, Fla.

Howard, J. E., *W.M.* 1930
Johns Hopkins Hosp., Baltimore, Md.; Union Memorial Hosp., Baltimore, Md.

HOWARD, P. M., assoc. dir. *Clin. Psychiat.* (*McL.*) psychiat.; r.p. *Psychiat.* 1937; r.p. *Psychiat.* (*McL.*) 1939 McLean Hosp., Belmont

HOWE, HENRY D., dn.s. (*Dn.* 1945) 196 Marlborough

Howe, Henry F., r.s. *P.H.* 1934
Director, Dept. of Occupational Health, Amer. Med. Assoc., 535 Dearborn, Chicago, Ill.

HOWE, LOUISA P., assoc. sociol. *Psychiat.* Harvard Sch. of Public Health, 718 Huntington Ave.

HOWRY, D. H., a.r. M. G. H.

Hoyt, W. F., *W.S.* 1932; r.s. *W.S.* 1934 130 Maple, Springfield

Hubbard, E., Jr., *W.M.* 1921
29 Highland, Cambridge

Huber, W. M., r.p. *D.* 1937
512 Beacon

Huckell, J. R., a.r.s. *Or.* 1958
McLeod Bldg., Edmonton, Alberta, Canada

Hugenberger, P. W., *Path.* 1931 and *Or.* 1935; r.p. *Path.* 1932
234 Marlborough

HUGGARD, MIRIAM, exec. a. *P.H.* (*S.N.* 1931) M. G. H.

HUGGINS, C. E., a.s. (*S.* 1953); r.s. 1960 M. G. H.

Hughes, H. C., *Or.* 1937
1750 Race, Denver, Colo.

Hughes, J. R., *M.* 1961
Children's Med. Center

Hügin, W., a.r.p. *An.* 1948
Chir Klink im Burgerspital, Basel, Switzerland

Hummel, L. E., *Path.* 1932
Edward J. Meyer Memorial Hosp., Buffalo, N. Y.

Humphreys, S. P., *Or.* 1936; a.r.s. *N.S.* 1937 266 Beacon

Hunt, R. T. N., *Path.* 1957; a.r.p. *Path.* 1958 Samuel Merritt Hosp., Oakland, Calif.

Hunt, S. P., a.r.p. *Psychiat.* 1940
158 Whitney Ave., New Haven, Conn.

Hunter, R. W., a.r.p. *N.* 1939
Hitchcock Clinic, Hanover, N. H.

HUNTINGTON, B. L., a.p. (*W.M.* 1940)
John Hancock Mut. Life Ins. Co.

Huntington, J. L., *S.S.* 1908
River Dr., Hadley

Hüppe, J. R., r.p. *R.* 1957
Prinzregentenstrasse, 66, Munich, Germany

HURLEY, P. D., a. *Oph.*
1101 Beacon

HURST, A. L., a. *Otolar.*
98 Adams, Milton

HURWITZ, J. J., a. *U.*
1152 Beacon, Brookline

Hurxthal, L. M., *W.M.* 1925; r.p. *E.M.* 1927 Lahey Foundation
605 Commonwealth Ave.

Huston, L. L., *Or.* 1937
67 Converse, Longmeadow

HUTTENLOCHER, P. R., a. *N.*; a. *Pediat.* M. G. H.

Hyatt, G. T., *W.S.* 1931 and *Or.* 1934 1106 W. Franklin, Evansville, Ind.

Hyslop, N. E., Jr., *M.* 1962; a.r.p. 1963 National Inst. of Health, Bethesda, Md.

Ibsen, B., a.r.p. *An.* 1950
Anaesthesiologisk afd.
Kommunehospitalet K,
Copenhagen, Denmark

Ilfeld, F. W., *Or.* 1937; r.s. *Or.* 1937
436 N. Roxbury Dr.,
Beverly Hills, Calif.

Ingalls, T. H., r.p. *C.M.* 1938
Univ. of Pennsylvania Sch. of Med., Philadelphia, Pa.

INGERSOLL, F. M., v.s. (*W.S.* 1939); a.r.s. 1942 226 Marlborough

IRWIN, J. W., a. *M.* M. G. H.

Isaacs, J. P., a.r.p. *An.* 1952
Johns Hopkins Hosp.,
Baltimore, Md.

ISSELBACHER, K. J., assoc. p. (*M.* 1950); r.p. 1953 M. G. H.

JABALEY, M. E., a.r.s. M. G. H.

Jackanich, R. F., a.r.p. *An.* 1959
USPHS Hosp., San Francisco, Calif.

Jackson, B. B., *S.* 1953; a.r.s. 1957
Heyburn Bldg., Louisville, Ky.

Jackson, H., Jr., *E.M.* 1919
84 Glendale Rd,
Needham, Mass.

JACOBSON, B. M., p. M. G. H.

JACOBY, G. A., r.p. (*M.* 1959) M. G. H.

JAKO, G., a. *Otolar.* 5 Emerson Pl.
Melrose

James, G. W., III, *M.* 1944
Med. Coll. of Virginia,
Richmond, Va.

James, L. P., Jr., *S.* 1959; r.p. *Path.* 1963 197 South Quaker Lane,
West Hartford, Conn.

James, W. J., r.s. *N. S.* 1949
2929 Loma Vista Rd.,
Ventura, Calif.

Jamison, R. L., *M.* 1961; a.r.p. 1962
National Inst. of Health
Bethesda, Md.

Janower, M. L., a.r.p. *R.* 1963 M. G. H.

JARDETZKY, O., cons. *Pharm.* H. M. S.

Javid, M., r.s. *N.S.* 1952
University Hosp., Madison, Wis.

JEANLOZ, R. W., biochem. *M.* M. G. H.

Jefferies, W. McK., *E.M.* 1942
University Hosp., Cleveland, Ohio

Jenkins, M. T., a.r.p. *An.* 1948
Univ. of Texas Southwestern
Med. Sch., Dallas, Tex.

JENNEY, P. B., a. psychiat. (*McL.*)
McLean Hosp., Belmont

Jergesen, F. H., *Or.* 1942
384 Post, San Francisco, Calif.

Jessner, Lucie, r.p. *Psychiat.* (*McL.*) 1939 Univ. of North Carolina,
Chapel Hill, N. C.

Jobe, M. C., *C.M.* 1924
558 Columbine, Denver, Colo.

JOHANNET, P., a. psychiat.
262 Beacon

JOHNSON, C. C., s. *Oph.*
Mass. E. & E. Inf.

Johnson, Dale G., *S.* 1957; a.r.s. 1961
383 Tavistock Blvd.,
Haddonfield, N. J.

Johnson, F. G., *Dn.* 1943
Litchfield Turnpike, Bethany,
New Haven, Conn.

*Johnson, Louis F.,
Surgeon General,
c/o U. S. Air Force,
Washington, D.C.

Johnson, Louis G., *Path.* 1940 and *E.M.* 1942; a.r.p. 1942
Royal Victoria Hosp.,
Montreal, Canada

Johnson, N. P., *E.M.* 1925
1701 Irving Ave., S.,
Minneapolis, Minn.

Johnson, O. R., r.p. *D.* 1931
18 Deering, Portland, Maine

Johnson, P. R., *Path.* 1936
85 Jefferson, Hartford, Conn.

*Not in States and Cities section of this Directory

Johnson, R. T., a.r.p. *N.* 1960
John Curtin Sch. Med Research, Australia National Univ., Canberra, Australia

Johnson, V. S., sr. r.s. *Or.* 1955
33 Oak Ave., Worcester

Johnston, E. V., *W.S.* 1947
312 W. 8th Ave., Spokane, Wash.

Jones, B. B., *E.M.* 1918 and *C.M.* 1919
526 North Blvd., Richmond, Va.

JONES, C. M., hon. p. (*E.M.* 1919); h.p. *E.M.* 1921 M. G. H.

Jones, F. S., *Or.* 1932
85 Jefferson, Hartford, Conn.

Jones, G. E., *E.S.* 1939; a.r.s. 1942
108 W. 22nd, Olympia, Wash.

JONES, H. W., Jr., a. *M.*
330 Dartmouth

Jones, R. H., r.p. 1959
152 Galer, Seattle, Wash.

Jones, T. B., *Thd. S.* 1924
Kecoughtan Station, Hampton, Va.

*Jones, Wallace A., a.r.p. *Path.* 1959
Muncaster Rd., Derwood, Md.

Jones, William Nicholas, a.r.s. *Or.* 1954 35 Huntington, New London, Conn.

JONES, WILLIAM NORMAN, a.s. *Or.* (*Or.* 1947) M. G. H.

JOPLIN, R. J., *Bd. of Cons.* (*Path.* 1929 and *Or.* 1933)
Zero Emerson Pl.

JORDAN, E. F., c.r.s. *N.S.* M. G. H.

Jordan, W. R., *W.M.* 1930
1631 Monument Ave., Richmond, Va.

Joseph, A. T., *Dn.* 1941
475 Commonwealth Ave.

JOSEPH, J. B., a. *Pediat.;* c.r.p. *C.* M. G. H.

Josse, J. W., *M.* 1957; a.r.p. 1958
Washington Univ. Sch. of Med., St. Louis, Mo.

JOYCE, JOSEPHINE, exec. a. (*R.N.*) M. G. H.

Judd, A. B., *S.* 1955
10 Ocean Ave., Monmouth Beach, N. J.

Judd, J. M., *E.S.* 1944; j.r.s. *E.S.* 1945; r.s. *N.S.* 1946
Murray Hill, Mount Morris, N. Y.

Justi, R. A., r.p. *Path.* 1956
Jackson Memorial Hosp., Miami, Fla.

Kahn, D. S., r.p. *Path.* 1950
St. Mary's Hosp., Montreal, Canada

KAHNE, M. J., assoc. psychiat. (*McL.*)
McLean Hosp., Belmont

KAIL, ALEXANDRA M., r.p. *Psychiat.* (*McL.*); a.r.p. *Psychiat.* 1963 McLean Hosp., Belmont

KALCKAR, BARBARA W., assoc. biochem. *M.* M. G. H.

KALCKAR, H. M., res. biochem. *Biochem. Res.* M. G. H.

Kalil, T. H., a.r.p. *R.* 1946
795 Elm, Manchester, N. H.

KALIN, T. A., cons. *Biomath. Psychiat.* M. G. H.

KANE, L. W., a. *M.* (*W.M.* 1941) M. G. H.

KANTOR, M., a. *psychiat.*; a.r.p. *Psychiat.* 1960 M. G. H.

KANTROWITZ, P. A., a.r.p. M. G. H.

KAPLAN, S., a. psychiat.
38 Hyde, Newton Highlands

Karian, E., a.r.p. *D.* 1955
358 Commonwealth Ave.

*Karnes, W. E., r.p. *N.* 1958
Box 25, U.S. Air Force Hosp., Travis Air Force Base, Calif.

KARTCHNER, M. M. a.r.s. (*S.* 1958) M. G. H.

KASHKET, S., a. biochem. *M.* M. G. H.

Katz, A. M., *M.* 1957; a.r.p. 1960
Columbia Univ. Coll. of Physicians and Surgeons, Dept. of Psysiology, 630 West 168th, New York, N. Y.

Katz, S. L., a.r.p. *C.M.* 1955
Children's Med. Center

Kaufman, H. E., *M.* 1957
J. Hillis Miller Health Center, Univ. of Florida, Gainesville, Fla.

Kaufman, M. R., r.p. *Psychiat.* (*McL.*) 1933 Mount Sinai Hosp., New York, N. Y.

Kaufmann, G. G., a.r.p. 1941
15 Dix, Winchester

Kazanjian, K. A., r.p. *D.* 1933
475 Commonwealth Ave.

KAZANJIAN, V. H., hon. s.
475 Commonwealth Ave.

Kazemi, H., r.p. 1963 M. G. H.

KEARSLEY, R. B., assoc. pediat.; (*C.M.* 1954); c.r.p. *C.M.* 1956 M. G. H.

Keats, A. S., a.r.p. *An.* 1951
Texas Med. Center, Houston, Tex.

Keeley, J. K., *N.S.* 1937; r.s. *P.H.* 1938 103 S. Hamilton, Poughkeepsie, N. Y.

*Not in States and Cities section of this Directory

KEENAN, M. E., a.r.p. *C.* M. G. H.
KEENAN, T. J., a. *An.;* a.r.p. *An.* 1959 M. G. H.
Keevil, C. S., Jr., *M.* 1956; r.p. 1958 Concord Med. Center, Concord
Keiser, R. P., *Or.* 1942 Coral Gables Clinic, Coral Gables, Fla.
Keitt, A. S., *M.* 1962; a.r.p. 1963 University College Hosp. Med. Sch., London N. W. 1, England
KELLER, J. W., a. *M.* 266 Beacon
KELLEY, RITA M., assoc.p. (*M.* 1947); r.p. 1949 M. G. H.
KELLEY, S. B., cons. v.u. (*E.S.* 1931); r.s. *U.* 1933 412 Beacon
KELLY, E. J., a. *R.* M. G. H.
KELLY, L. T., a. *An.;* a.r.p. *An.* 1961 M. G. H.
Kendrick, J. I., *Or.* 1933 2020 E. 93rd, Cleveland, Ohio
Kennard, H. E., *W.S.* 1934 246 Dudley Rd., Newton Centre
Kennedy, B. Hughes, *C.M.* 1921 2940 Clairmont Ave., Birmingham, Ala.
Kennedy, Byrl J., *M.* 1946; r.p. 1952 University Hosp., Minneapolis, Minn.
KENNEDY, D. A., a. soc. anthropol. (*McL.*) 3 Felton, Cambridge
Kennedy, J. H., *S.* 1950; a.r.s. 1955 Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
Kennedy, R. P., *Thd. S.* 1924 Box 262, Richmond, Ind.
*Kenner G., a.r.s. *Or.* 1961 804 Medical Group, Hunter Air Force Base, Savannah, Ga.
KENT, C., assoc. s. *Otolar.* 483 Beacon
KERMOND, W. L., a. *Or.* 175 Washington, Winchester
Kernan, R. D., *Path.* 1945 3 rue Edouard Nortier, Neuilly-sur-Seine, France
KERR, WALTER S., Jr., v.u. (*W.S.* 1943); a.r.s. 1947; r.s. *U.* 1949 M. G. H.
Kerr, William J., *W.M.* 1916 Box 338, Blue Lake, Humboldt County, Calif.
Kerrigan, G. A., *C.M.* 1950; c.r.p. *C.M.* 1952 Milwaukee Children's Hosp., Milwaukee, Wis.
Kershaw, Beatrice R., r.p. *Psychiat.* (*McL.*) 1939 29 Louise Rd., Belmont
KETCHUM, P., *Honorary President of the Corporation* and *Associate Trustee* 294 Washington
Ketchum, W. F., *C.M.* 1948 Children's Cancer Research Foundation, 35 Binney
Kettle, R. H., r.p. *Psychiat.* (*McL.*) 1931 Norwich State Hosp., Norwich, Conn.
KEUPER, C. S., a. *D.;* r.p. *D.* 1951 Concord Med. Center, Concord
Key, R. E., sr.r.s. *Or.* 1958 800 5th Ave., Fort Worth, Tex.
Key, W. A., *Or.* 1927 23 Baldwin Ave., San Mateo, Calif.
Keyes, G. H., *M.* 1947 Ogden Clinic, Ogden, Utah
Kiely, B., *M.* 1952 New York Univ. Sch. of Med., 550 1st Ave., New York, N. Y.
Kilfoyle, R. M., a.r.s. *Or.* 1951 457 Main, S. Weymouth
KIMBALL, P. G., a.dn.s. (*Dn. M.,* 1961); r.s. *Dn. M.* 1963 M. G. H.
Kimberly, C. H., r.p. *N.* 1929 Stockbridge
Kimura, K. K., *C.M.* 1955; a.r.p. *C.M.* 1956 Atlas Chemical Industries, Inc., Wilmington, Del.
*Kind, H. A., *C.M.* 1935 U.S. Army Dispensary, Fort Hamilton, Brooklyn, N. Y.
King, H. S., a.r.p. *C.M.* 1959 1935 Beacon, Waban
King, W. B., Jr., a.r.p. *Path.* 1956 Maryland General Hosp., Baltimore, Md.
Kinney, R. J., a.r.p. 1943 3845 E. Farrin Way, Fresno, Calif.
KINOSHITA, J. H., biochem. *Oph.* Mass. E. & E. Inf.
Kinsey, Dera, a.r.p. 1939 203 Commonwealth Ave.
KIRKWOOD, S. B., *Bd. of Cons* (*W.S.* 1934) American Univ. of Beirut, Beirut, Lebanon
KITE, O. W., dn.s. (*Dn.* 1951) 29 Bay State Rd.
Kitts, A. W., r.p. *C.M.* 1941 346 W. Baltimore Ave., Media, Pa.
KJELLBERG, R. N., a. *N.S.;* r.s. *N.S.* 1959 M. G. H.

*Not in States and Cities section of this Directory

Klaus, Hanna, a.r.p. *Path.* 1953
Holy Family Hosp.,
Rawalpindi, West Pakistan
Kleaveland, R.N., *S.* 1952; a.r.s. 1956
Medical Center Building,
Spokane, Wash.
Klein, David M., r.s. *N.S.* 1961
Edward J. Meyer Memorial Hosp.,
Buffalo, N. Y.
KLEIN, DONALD C., assoc. psychol.
11 Abbott Rd., Wellesley
Klein E., a.r.p. *D.* 1959
Roswell Park Memorial Hosp.,
Buffalo, N. Y.
KLEIN, T. R., a. *Otolar.*
60 Charlesgate West
Kleinman, L. I., *C.* 1961; a.r.p. *C.* 1962
Harvard Univ. Sch. of Public
Health, 665 Huntington Ave.
Klenk, E. L., *C.* 1963
2727 Palisade Ave.,
New York, N. Y.
KLIMAN, B., a. *M.* M. G. H.
Kline, R. M., *C.* 1962; a.r.p. *C.* 1963
652 W. 163rd., New York, N. Y.
Klingensmith, W. E., *S.* 1955; a.r.s. 1961
Beckley Memorial Hosp.,
Beckley, W. Va.
KLOTZ, R. E., assoc. s. *Otolar.*
Zero Emerson Pl.
Knapp, M. R., a.r.p. *An.* 1955
4 Peachtree Lane, Wichita, Kan.
Knapp, P. H., a.r.p. *Psychiat.* 1947
Boston Univ.-Mass. Memorial
Hosp. Med. Center
Knapp, R. G., Jr., *Dn.* 1950
1402 Genesee, Utica, N. Y.
Kneisel, J. J., *E.M.* 1940
Hosp. of St. Raphael,
New Haven, Conn.
KNOWLES, J. H., gen dir.; p. (*M.* 1952); c.r.p. 1958 M. G. H.
KOCH-WESER, J., a. *M.* (*M.* 1955); r.p. 1959 M. G. H.
KOHN, H. I., cons, *R.* M. G. H.
KOLODNY, G. M., a.r.p. *R.*
M. G. H.
KOPALD, H. H., r.p. M. G. H.
Koppel, Elizabeth A., a.r.p. *An.* 1954
437 Cedar, N.W.,
Washington, D. C.
Korn, D., *Path.* 1960
National Inst. of Health,
Bethesda, Md.
KORNBLITH, P. L., a.r.s. M. G. H.
KORNFELD, W., a. attend. psychiat. (*McL.*) 1419 Beacon, Brookline
KORNFIELD, M. A., j.a.r.p. *C.*
M. G. H.
Kosek, Margaret Single, a.r.p. *C.M.* 1958
Palo Alto Med. Clinic,
Palo Alto, Calif.
KOVACEVICH, M. M., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont
Kozol, H. L., *E.M.* 1936
330 Beacon
Kramer, J. G., *C.M.* 1917
159 S. Main, Akron, Ohio
KRANE, S. M., a.p. (*M.* 1952); c.r.p. 1957 M. G. H.
KRANES, A., p. (*W.M.* 1932); c.r.p. 1935 M. G. H.
KRAUS, P. S., assoc. attend. psychiat. (*McL.*) 12 Longfellow Rd.,
Wellesley
Kraut, H. L., a.r.p. *D.* 1957
1435 Bedford, Stanford, Conn.
Kravitz, A. R., *M.* 1955
Beth Israel Hosp.
KRAYER, O., cons. *Pharm.* H. M. S.
Kreisle, J. E., *W.M.* 1943; r.p. 1947
2317 Longview Ave., Austin, Tex.
*Krickstein, H. I., r.p. *Path.* 1963
2nd U. S. Army Area Laboratory,
Fort George G. Meade, Md.
Kristjansson, H., a.r.s. *Or.* 1946
City Hosp., Reykjavik, Iceland
KUBIK, C. S., hon. p. M. G. H.
Kuhlmann, R. F., sr. r.s. *Or.* 1948
80 Colchester Ave., Burlington, Vt.
Kuhn, W. G., Jr., a.r.s. *Or.* 1949
251 Powers,
New Brunswick, N. J.
Kuhns, J. G., *Or.* 1926
416 Marlborough
Kuldau, J. M., r.p. *Psychiat.* (*McL.*) 1961
U. S. Naval Hosp.,
San Diego, Calif.
Kulka, J. P., a.r.p. *Path.* 1947
Robert Breck Brigham Hosp.
KUNZ, L. J., b. M. G. H.
KUPFER, C., a. *Oph.*
Mass. E. & E. Inf.
KVARACEUS, W. C., res. assoc. *Ed. Psychol.* (*McL.*)
Sch. of Education, Boston Univ.,
332 Bay State Rd.
Lacey, W. H., *W.S.* 1917
W. Hill Rd., Keene, N. H.
Lake, M., *W.M.* 1924
11 E. 68th, New York, N. Y.
Lambert, E. C., *E.M.* 1943
Children's Hosp., Buffalo, N. Y.

*Not in States and Cities section of this Directory

Lambert, J. T., *W.M.* 1942
768 Park Ave., New York, N. Y.

LAMBORG, M. R., a. biochem. *M.*
M. G. H.

LAMDIN, SUSANNE J., a. *An.* (*C.M.* 1953); a.r.p. *An.* 1959 M. G. H.

LAMKINS, B. E., a. *D.;* r.p. *D.* 1963
M. G. H.

LAMONT, J. H., assoc. psychiat.; sr.r.p. *Psychiat.* (*McL.*) 1951
M. G. H.

LAMPERT, N. R., a.r.s. (*S.* 1960)
M. G. H.

Lang, D. J., a.r.p. *C.* 1961
Children's Med. Center

Langer, G. A., *M.* 1955; r.p. 1960
Dept. of Cardiovascular Research, Univ. of California at Los Angeles Med. Center, Los Angeles, Calif.

LANGEVIN, H. J., admin. (*McL.*)
McLean Hosp., Belmont

Lansing, C., *C.M.* 1948; a.r.p. *C.M.* 1950
North Carolina Memorial Hosp., Chapel Hill, N. C.

Larkey, J., *W.S.* 1928
431 30th, Oakland, Calif.

Laron, Z., r.p. *C.M.* 1955
Beilinson Hosp., Petah Tiqva, Israel

LARSON, C. B., *Bd. of Cons.* (*Or.* 1938) State Univ. of Iowa; Children's Hosp., Iowa City, Iowa

Lassiter, W. E., *M.* 1955; a.r.p. 1956
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

Laster, L., *M.* 1950; r.p. 1953
National Inst. of Health, Bethesda, Md.

LAVER, M. B., a. an. M. G. H.

LAWLOR, R. C., a. *Oph.*
9 Central, Lowell

Lawrence, G. Hugh, *W.S.* 1947; a.r.s. 1952 1118 9th Ave., Seattle, Wash.

LAWRENCE, GLENN W., dn.s.
25 Bay State Rd.

LAWRENCE, JOHN E., *Chairman of Trustees* 177 Milk

Lawrence, John S., *W.M.* 1925
Med. Sch. of Univ. of California South, Los Angeles, Calif.

LAWSON, D. W., a.r.s. (*S.* 1963)
M. G. H.

Layzer, R. B., *M.* 1958; a.r.p. 1959
264 Broad Ave., Leonia, N. J.

Lazarus, H. R., r.p. *Psychiat.* (*McL.*) 1959 8420 Gridley Ave., Wauwotosa, Wis.

Leach, C. A., Jr., a.r.p. *C.M.* 1951
525 Southfield Rd., Birmingham, Mich.

LEADBETTER, G. W., Jr., a. u.; sr.r.s. *U.* 1959 M. G. H.

LEADBETTER, W. F., c. *U.* M. G. H.

LEAF, A., p. (*M.* 1944) M. G. H.

LEAHEY, B. D., s. *Oph.*
9 Central, Lowell

LEAKE, D. L., r. *Dn.M.* (*Dn. M.* 1963) M. G. H.

Leape, L. L., Jr., *S.* 1960; a.r.s. 1962
Children's Medical Center

LeBARON, F. N., assoc. biochem. (*McL.*) McLean Hosp., Belmont

Ledbetter, Betsy A., a.r.p. *An.* 1955
712 Monrovia, Shreveport, La.

LeDonne, J. E., r.p. *D.* 1952
357 Essex, Salem

Lee, J. M., *C.M.* 1916
706 Church, Nashville, Tenn.

LEE, R. I., hon. p. (*E.M.* 1907)
446 Walnut, Brookline

Leeman, C. P., *M.* 1960
Beth Israel Hosp.

Leeper, R. W., r.p. *D.* 1950
Kaiser Foundation Hosp., Oakland, Calif.

Lees, R. S., *S.* 1960; a.r.p. 1962
Institute of Cardiology, 36 Wimpole, London W. 1, England

Legge, R. F., *Or.* 1935
7255 Girard Ave., La Jolla, Calif.; 3737 Moraga Ave., San Diego, Calif.

LEHMAN, R. A. W., a.r.s. (*S.* 1963)
M. G. H.

LEHRICH, J. R., a.r.p. (*M.* 1963)
M. G. H.

Leiderman, P. H., r.p. *Psychiat.* 1957
Stanford Univ. Sch. of Med., Palo Alto, Calif.

Leidholt, J. D., a.r.s. *Or.* 1952
1855 Gaylord, Denver, Colo.

Leigh, A. D., r.p. *Psychiat.* 1948
The Maudsley Hosp., Denmark Hill, London, S.E. 5, England

Leighton, J., r.p. *Path.* 1949
Univ. of Pittsburgh Sch. of Med., Pittsburgh, Pa.

Leinbach, T. C., a.r.s. *Or.* 1956
1500 Penn Ave., Wyomissing, Pa.

Leister, C. M., *C.M.* 1934
1731 W. Broad, Bethlehem, Pa.

LEITNER, A., a. *M.;* a.r.p. 1963
M. G. H.

LELE, P. P., a. neurophysiol. *N.S.*
M. G. H.

LENTINE, J., s. *Otolar.*
15 Bay State Rd.

*Leonard, L. M.,
076335 34th General Hospital,
A.P.O. 58, New York, N. Y.

LEPPER, EDNA S., assoc. dir. *Nurs. Serv.* (*S.N.* 1926) M. G. H.

LERMAN, J., p.
370 Commonwealth Ave.

LESKOWITZ, S., assoc. immunol. *M.* M. G. H.

Letsou, V. G., a.r.p. *D.* 1956
170 Merrimack, Lowell

Levene, M. B., r.p. *R.* 1954
Lemuel Shattuck Hosp.,
Jamaica Plain

Leventhal, Brigid G., *C.* 1961; a.r.p. *C.* 1962 Boston City Hosp.

LEVENTHAL, C. M., r.p. *N.* M. G. H.

LEVER, W. F., *Bd. of Cons.;* a.r.p. *D.* 1938 Boston Dispensary,
25 Bennet

LEVEY, B., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

LEVEY, R. H., a.r.s. (*S.* 1960) M. G. H.

LEVIN S., assoc. attend. psychiat. (*McL.*) 1265 Beacon, Brookline

Levine, Herbert J., a.r.p. 1958
New Eng. Center Hosp.

LeVINE, HERBERT O., a. *Psychiat.*
379 Central, Auburndale

LEVITAN, J. J., a.dn.s. 80 Boylston

Levy, S. W., a.r.p. *D.* 1951
450 Sutter,
San Francisco, Calif.

LEWIS, D. K., s. *Otolar.*
5 Emerson Pl., Mass. E. & E. Inf.

Lewis, E. O., sr.r.p. *R.* 1945
St. Luke's Hosp., New Bedford

Lewis, James, *W.M.* 1935 and *C.M.* 1936 281 State, Springfield

Lewis, John L., Jr., *S.* 1958; a.r.s. 1962
Boston Lying-in Hosp.

LEWIS, JOSEPH L., clin. assoc. *C.* (*C.M.* 1936); r.p. *C.M.* 1937
25 Grant, Waltham

Lezer, L. R., past a. dir.
Boston City Hosp.

Licciardello, A. T., *M.* 1948; a.r.p. 1949 2875 Main, Stratford, Conn.

Lichtenwalner, C. S., *M.* 1950; a.r.p. 1951 Sch. of Med.,
American Univ. of Beirut,
Beirut, Lebanon

Lichty, J. S., past a. dir.
Akron Gen. Hosp., Akron, Ohio

LIEBMAN, S. D., assoc.s. *Oph.*
115 Bay State Rd.

Liffmann, K. E., *Dn.* 1956
Rhode Island Hosp.,
Providence, R. I.

LIFVERGREN, SARAH M., exec. a. *Gen. Hosp.* and *B.M.* (*S.N.* 1930) M. G. H.

Lilly, T. E., Jr., *E.S.* 1943
Argyle Bldg., Kansas City, Mo.

Lincoln, J. R., *Or.* 1918
709 Main, Wareham

LINCOLN, R. C., dn.s. (*Dn.* 1953) M. G. H.

LINDEMANN, E., c. *Psychiat.;* psychiat. (*McL.*) M. G. H.

LINDSAY, D. R., deputy to gen. dir. for res. admin. M. G. H.

Linenthal, A. J., a.r.p. 1944
1265 Beacon, Brookline

LINGEMAN, B. S., a. *Oph.*
328 Washington, Wellesley Hills

Lingenfelter, G. P., *D.* 1910
1612 Tremont Pl., Denver, Colo.

Lingley, J. R., a.r.p. *R.* 1931
27 Elm, Worcester

LINTON, R. R., *Bd. of Cons.* (*W.S.* 1928); r.s. *W.S.* 1930
1180 Beacon, Brookline

Lipman, M. M., r.p. 1959
Scarsdale Med. Center,
Scarsdale, N. Y.

Lipowski, Z. J., a.r.p. *Psychiat.* 1959
Allan Memorial Inst.,
1025 Pine Ave.,
Montreal, Canada

Little, J. B., r.p. *R.* 1961
Harvard Sch. of Public Health,
665 Huntington Ave.

LITTLEFIELD, J. W., a p. (*M.* 1948); r.p. 1950 M. G. H.

LITTMANN, D., clin. assoc. *M.*
Vet. Adm. Hosp.,
W. Roxbury

LITWIN, S. B., a.r.s. M. G. H.

Liu, C. T., r.s. *N.S.* 1946
1855 San Miguel Dr.,
Walnut Creek, Calif.

Lium, R., *E.S.* 1935
388 State, Portsmouth, N. H.

Livermore, G. R., Jr., *W.S.* 1943
Baptist Memorial Hosp.,
Memphis, Tenn.

Livingston, W. K., *W.S.* 1922
Camp Sherman, Oreg.

*Not in States and Cities section of this Directory

Livingstone, J. B., r.p. *Psychiat.* (*McL.*) 1963 M. G. H.
Lloyd, J. B., *E.S.* 1944; sr. r.s. 1946 Lemuel Shattuck Hosp.
Locke, E. A., *E.M.* 1902 c/o Boyd, 122 E. 76th, New York, N. Y.
Locke, H. L. F., *C.M.* 1912 293 Farmington Ave., Hartford, Conn.
Locksley, H. B., *S.* 1950; sr. r.s. *N.S.* 1956 University Hosp., State Univ. of Iowa, Iowa City, Iowa
Loeb, J. N., *M.* 1962 Presbyterian Hosp., New York, N. Y.
Loeb, R. F., *W.M.* 1920 950 Park Ave., New York, N. Y.
LOFGREN, R. H., a. *Otolar.* Zero Emerson Pl.
LOFTFIELD, R. B., assoc. biochem. *M.* M. G. H.
Lombroso, C. T., a.r.p. *N.* 1955 Children's Med. Center
LONGABAUGH, R. H., a. soc. sc. (*McL.*) McLean Hosp., Belmont
LORCH, S., a. *Math. Psychiat.* M. G. H.
LORENZ, MARIA, a. psychiat.; assoc. psychiat. (*McL.*); sr.r.p. *Psychiat.* (*McL.*) 1949 M. G. H.
Los, E., a.r.p. *An.* 1961 250 West 105th St., Apt. 3-E, New York, N. Y.
Lotz, M., *M.* 1959; a.r.p. 1960 National Inst. of Health Bethesda, Md.
Lowd, H. M., Jr., *C.M.* 1941 359 Essex, Salem
Lowe, C. U., r.p. *C.M.* 1948 219 Bryant, Buffalo, N. Y.
LOWELL, F. C., p. M. G. H.
LOWELL, J. D., a. *Or.*; a.r.s. *Or.* 1953 M. G. H.
LOWELL, R., *Trustee* 100 Franklin
Lowell, W. H., Jr., a.r.p. 1940 85 Jefferson, Hartford, Conn.
*Lowenstein, E., U. S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas
Lowis, S., *N.S.* 1936; r.s. *N.S.* 1940 475 Commonwealth Ave.
Lowrey, S. R., r.s. *U.* 1936 170 St. George, Toronto, Canada

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Luck, D. J. L., *M.* 1954; r.p. 1958 Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.
Ludwig, A. O., *E.M.* 1932; r.p. 1936; r.p. *Psychiat.* (*McL.*) 1937 2 W. Cedar
Ludwig, G. D., a.r.s. 1950 Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.
Luessenhop, A. J., r.s. *N.S.* 1957 Georgetown Univ. Hosp., Washington, D. C.
Luikart, R. H., *W.S.* 1917 Med. Arts Bldg., Omaha, Nebr.
Luikart, R. H., II, *M.* 1944; a.r.p. *D.* 1948 1532 Anacapa, Santa Barbara, Calif.
Lund, C. C., *E.S.* 1922; h.s. *Thd. S.* 1923 319 Longwood Ave.
Lund, I., a.r.p. *An.* 1947 Ulleval Sykehus, Oslo, Norway
Lunt, L. K., *W.M.* 1916 1125 Pecos Rd., Santa Fe, N. M.
LUONGO, M. A., cons. *Forensic Path.* (*Path.* 1946); a.r.p. *Path.* 1947 H. M. S.
Lupien, G. F., a.r.s. *Or.* 1963 Deaconess Med. Office Bldg., 110 Francis
Lurie, A. S., a.r.p. *D.* 1959 363 Lowell, Peabody
Lyons, C., *W.S.* 1933; r.s. 1936 Med. Coll. of Alabama, Birmingham, Ala.
Lytton, W. B., r.p. *Psychiat.* (*McL.*) 1937 St. Vincent's Hosp., St. Louis, Mo.
MABREY, R. E., *Bd. of Cons.* 249 Commonwealth Ave.
McAlpine, F. S., c.r.p. *An.* 1957 Lahey Clinic
McARTHUR, JANET W., assoc.p.; a.r.p. 1944 M. G. H.
MacAusland, A. R., *W.S.* 1911 218 Commonwealth Ave.
MacAUSLAND, W. R., Jr., a.s. *Or.* 412 Beacon
McCann, S. M., *M.* 1949; a.r.p. 1950 Univ. of Pennsylvania Sch. of Med., Philadelphia, Pa.
McCARTEN, HELENA, exec. a. *P.H.* (*S.N.* 1933) M. G. H.
McCARTHY, P. L., a.d. 36 Adams, Quincy

McClellan, Betty J., *Path.* 1958; a.r.p. *Path.* 1960 Johns Hopkins Hosp., Baltimore, Md.

McClellan, W. S., *W.M.* 1925 Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

McCLELLAND, W. K., clin. assoc. *S.* 497 Main, Greenfield

McClung, J. L., r.p. *An.* 1952 5522 Tolman Ter., Madison, Wis.

McConnell, F., r.p. *R.* 1956 Montreal Gen. Hosp., Montreal, Canada

McCort, J. J., r.p. *R.* 1944 Santa Clara County Hosp., San Jose, Calif.

McCoy, W. T., r.p. *R.* 1960 19 Avenel Gardens Rd., Medindie, South Australia

McCully, K. S., *M.* 1960 The University of Glasgow, Glasgow, Scotland

McCune, W. S., *W.S.* 1937 1150 Connecticut Ave., N.W., Washington, D. C.

McDaniel, J. R., *E.S.* 1940; a.r.s. 1946 902 Edmond, St. Joseph, Mo.

MacDermot, P. N., *C.M.* 1930 1620 Pine Ave., West, Montreal, Canada

McDermott, L. J., *Or.* 1938 151 Vaughan, Portland, Maine

McDERMOTT, W. V., Jr., *Bd. of Cons.* (*W.S.* 1943); r.s. 1951 Boston City Hosp.

MacDONALD, A. S., Jr., clin. assoc. *C.* Herrick, Beverly

McDONALD, F. C., clin. assoc. *C.* 39 Main, Concord

MacDonald, R. F., *E.S.* 1922 Box 277, Mathews, Va.

McDonald, W., a.r.p. *An.* 1963 218 Hand Ave., Pelham, Ga.

McElroy, W. D., *Or.* 1932 3716 Market, Youngstown, Ohio

McFarland, R. B., a.r.p. *Path.* 1959 2660 13th, Boulder, Colo.

McGahey, C. E., r.s. 1946 530 Chestnut, Manchester, N. H.

McGILL, R. J., Jr., a.r.p. *D.* M. G. H.

McGINN, S., clin. assoc. *M.* 264 Beacon

*McGinty, J. B. a.r.s. *Or.* 1960 97th General Hosp., A.P.O. 757, New York, N. Y.

McGOVERN, J. J. M., clin. assoc. *C.* M. G. H.

McGovney, R. B., *Or.* 1930 Box 30, Waiakoa, Maui, Hawaii

McGRATH, E. F., clin. assoc. *C.* 71 Adams, Milton

McGUGAN, A. D., a. *D.*; r.p. *D.* 1961 36 Adams, Quincy

McGuire, M. T., a.r.p. *Psychiat.* 1962; r.p. *Psychiat.* (McL.) 1963 M. G. H.

Mach, B. F., *M.* 1959; a.r.p. 1960 Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

McHUGH, CATHERINE, exec. a. (*R.N.*) M. G. H.

McHugh, P. R., r.p. *N.* 1960 Walter Reed Army Inst. Res., Washington, D. C.

McIlroy, W. J., a.r.p. *Path.* 1960 Toronto Western Hosp., Toronto, Ontario, Canada

McIntyre, Patricia A., *M.* 1953 Confederate Memorial Med. Center, Shreveport, La.

McIver, M. A., h.s. *E.S.* 1922 12 Main, Cooperstown, N. Y.

Mack, J. E., *M.* 1956 Mass. Mental Health Center

MACKAY, M., e. *R.* M. G. H.

McKay, W. W., *C.M.* 1921 R.R. 1, Aylmer, Quebec, Canada

McKee, D. M., *S.* 1957; a.r.s. 1963 Lahey Clinic

McKeever, F. M., *Or.* 1930 2010 Wilshire Blvd., Los Angeles, Calif.

McKEIGUE, J. E., assoc. s. *Otolar.* 94 Pleasant, Arlington; 274 Commonwealth Ave.

McKenna, J. B., r.p. *Psychiat.* (*McL.*) 1932 Hitchcock Clinic, Hanover, N. H.

McKenzie, W. L., r.p. *C.M.* 1924 54 Bow, Woburn

McKHANN, C. F., r.s. (*S.* 1956) M. G. H.

Mackie, R. W. sr. r.s. *N.S.* 1954 Margaretville, N. Y.

MacKINNON, CHRISTINE, exec. a. *B.M.* (*S.N.* 1928) M. G. H.

MacKinnon, R., r.p. *Psychiat.* (*McL.*) 1930 Londonderry, Nova Scotia, Canada

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McKITTRICK, J. B., a.s. (*An.* 1938 and *W.S.* 1939); r.s. *W.S.* 1942
Deaconess Med. Office Bldg., 110 Francis
McKittrick, L. S., hon. s.
Deaconess Med. Office Bldg., 110 Francis
MacLaren, W. R., *C.M.* 1939; r.p. *C.M.* 1942 136 N. Madison Ave., Pasadena, Calif.
McLAUGHLIN, C. H., a.s. *Oph.*
834 Broadway, Everett
McLaughlin, W. B., *Or.* 1931
6077 Jenkins Arcade, Pittsburgh, Pa.
McLEAN, J. D., a. podiatrist *Or.*
38 Church, Winchester
MacLeod, G. K., a.r.p. 1962 H. M. S.
McMAHON, A. W., clin. assoc. *Psychiat.* 457 Franklin, Reading
MacMahon, C. E., *E.S.* 1938
900 Boylston Ave., Seattle, Wash.
McMEEL, J. W., a. *Oph.* 99 W. Cedar
MacMillan, A. S., Jr., r.p. *R.* 1953
319 Longwood Ave.
MacMillan, Hugh Alexander, a.r.p. *Path.* 1950
21 Glenallan Rd., Toronto, Ontario, Canada
MacMillan, Hugh Allen, Jr., a.r.s. 1947 1855 Gaylord, Denver, Colo.
McMillan, R. M., a.r.p. 1941
Southern Pines, N. C.
McNEELY, W. F., a. *M.*
226 Marlborough
McNEILL, J. M., assoc. r. M. G. H.
McNie, A. B., a.r.p. *Path.* 1957
353 30th, Oakland, Calif.
Macomber, D., *S.S.* 1911
Tide River Farm, Brunswick, Maine
McPeak, C. N., r.p. *R.* 1929
Henry Heywood Memorial Hosp., Gardner
McPEEK, B., a. *An.;* a.r.p. *An.* 1962 M. G. H.
McPhedran, A. M., r.p. *N.* 1962
Emory Univ. Sch. of Med. Atlanta, Ga.
McPherson, S. R., a.r.s. *Or.* 1949
85 Jefferson, Hartford, Conn.
*Madden, E. J., a.r.s. *Or.* 1960
U. S. Naval Hosp., Camp Pendleton, Calif.
MADDEN, J. W., a.r.s. (*S.* 1959) M. G. H.

*Not in States and Cities section of this Directory

Madey, S. L., *C.M.* 1944
1401 N. Foster, Baton Rouge, La.
MAGRAW, C. E., a. attend. psychiat. (*McL.*) 1419 Beacon, Brookline
Mahoney, S. A., Jr., *E.S.* 1926
1767 Northampton, Holyoke
Maier, J., *E.M.* 1940
Rockefeller Foundation, New York, N. Y.
Majerus, P. W., *M.* 1962; a.r.p. 1963
National Inst. of Health, Bethesda, Md.
Makel, H. P., c.r.p. *An.* 1949
2217 Webster, San Francisco, Calif.
Malcolm, J. A., *S.* 1953; a.r.s. 1958
Vet. Adm. Hosp., 408 1st Ave., New York, N. Y.
MALOOF, F., a.p.; a.r.p. 1952 M. G. H.
Maloy, J. K., *E.S.* 1947
120 W. Ravine Rd., Kingsport, Tenn.
MALT, R. A., a. *S.* (*S.* 1956); r.s. 1962 M. G. H.
Mancall, E. L., a.r.p. *Path.* 1957
Jefferson Med. Coll. of Philadelphia, Philadelphia, Pa.
MANCALL, I. T., a. *Oph.*
750 Main, Hartford, Conn.
Mangoni, A., a.r.p. *Psychiat.* 1960
Medical Research Council, Woodmansterne Rd., Carshalton, Surrey, England
Manly, I. V., *E.S.* 1947; a.r.s. 1952
2021 Clark Ave., Raleigh, N. C.
MANN, W., assoc. psychiat. M. G. H.
Mannick, J. A., *S.* 1954; a.r.s. 1960
Med. Coll. of Virginia, Richmond, Va.
Mannik, M., *M.* 1960; a.r.p. 1961
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.
Mansfield, P. B., *S.* 1963
National Inst. of Health, Bethesda, Md.
Manson, Elizabeth Sprague, *C.M.* 1953
1030 Sir Francis Drake Blvd., Kentfield, Calif.
Manson, J. G., a.r.s. *Or.* 1963
319 Longwood Ave.
Manzi, Rita A., a.r.p. *An.* 1963
Lynn Hosp., Lynn
Marble, A., r.p. *W.M.* 1930
15 Joslin Rd.
MARBLE, H. C., hon. s. (*W.S.* 1912) M. G. H.

MARCUS, S. M., *Bd. of Cons.*
416 Marlborough
Marcy, S. M., *C.* 1962; a.r.p. *C.* 1963
Boston City Hosp.
MARGOLIES, M. N., a.r.s. (*S.* 1963)
M. G. H.
MARK, V. H., a. n.s.; sr. r.s. *N.S.* 1954
M. G. H.
Markland, A. C., r.s. *U.*, 1962
703 Normandy Dr.,
Iowa City, Iowa
MARKS, G. A., clin. assoc. *S.* (*E.S.* 1931); r.s. *E.S.* 1933
15 Dix, Winchester
Maroney, J. W., r.p. *C.M.* 1932
1207 Delaware Ave.,
Wilmington, Del.
Marshall, C. S., r.p. *N.* 1927
Dept. of Public Health,
Halifax, Nova Scotia, Canada
Martin, A. R., *M.*
M. G. H.
Martin, C. L., h.p. *R.* 1920
3501 Gaston Ave., Dallas, Tex.
MARTIN, D. B., a.*M.* (*M.* 1955); c.r.p. 1959
M. G. H.
Martin, J. A., *W.S.* 1946; r.p. *R.* 1951
3501 Gaston Ave., Dallas, Tex.
MARTIN, L. E., assoc. dir. and comptroller
M. G. H.
Maruyama, Y., r.p. *R.* 1961
Stanford Univ. Sch. of Med.,
Palo Alto, Calif.
MASER, M., a. psychiat.
M. G. H.
Mason, E. D., *M.* 1946
11600 Wilshire Blvd.,
Los Angeles, Calif.
Mason, W., *E.M.* 1920; h.p. *E.M.* 1921
1030 President Ave.,
Fall River
Massie, W. K., *Path.* 1938
304 S. Limestone, Lexington, Ky.
Matchett, F. L., *Or.* 1934
1830 Williams, Denver, Colo.
Mathé, A., a.r.p. *Psychiat.* 1963
Karolinska Institutet,
Serafimerlasarettet, Stockholm,
Sweden
Mathews, S. S., *Or.* 1928
8820 Wilshire Blvd.,
Beverly Hills, Calif.
Mathieu, T. J., r.s. *U.* 1954
1120 W. Spruce, Yakima, Wash.
Mathis, W. H., Jr., r.p. *R.* 1948
Kennestone Hosp., Marietta, Ga.
MATTOS, E. R., a.dir.
M. G. H.
MATTOSO, L. F. de Q., a.r.p. *R.*
M. G. H.
MATZ, M. H., a. *D.*
51 Brattle, Cambridge
Maughs, S. B., a.r.p. *Psychiat.* 1938
Psychiatric Unit,
Forty-five Hundred West Pine Clinics, 4500 W. Pine Blvd.,
St. Louis, Mo.
MAY, G. A., a.r.s. (*S.* 1963)
M. G. H.
May, H. L., a.r.s. 1959
Hôpital Albert Schweitzer,
St. Marc, Haiti
Mayer, R. F., a.r.p. *N.* 1957
Boston City Hosp.
Mayman, C. I., r.p. *N.* 1961
Washington Univ. Sch. of Med.,
St. Louis, Mo.
MAYNARD, E. P., Ill. a.p.
M. G. H.
Maynard, G. B., Jr., *W.S.* 1943
1109 S. Lincoln Ave., Urbana, Ill.
Mayo, F. B., *E.M.* 1943; a.r.p. 1944
144 Beach Bluff Ave., Swampscott
MAYO, R. A., a. *Or.*; sr. r.s. *Or.* 1956
Deaconess Med. Office Bldg.,
110 Francis
MAZER, M., a. psychiat. N. Water,
Edgartown, Martha's Vineyard
Mazuzan, J. E., Jr., c.r.p. *An.* 1959
Mary Fletcher Hosp.,
Burlington, Vt.
Mead, S., *E.M.* 1940 and *Path.* 1941; a.r.p. *N.* 1942
Kaiser Foundation Rehabilitation Center, Vallejo, Calif.
Meader, C. N., *E.M.* 1912
1317 Ogden,
Denver, Colo.
Mealey, J., Jr., r.s. *N.S.* 1960
Indiana Univ. Med. Center,
Indianapolis, Ind.
MEANS, J. H., hon. p. (*E.M.* 1913)
60 Mount Vernon
Means, P. H., *E.M.* 1924
1 Waterhouse, Cambridge
Meath, J. A., r.p. *N.* 1947
1114 St. Paul,
Baltimore, Md.
Meigs, J. Wister, a.r.p. 1943
310 Cedar, New Haven, Conn.
Meister, L., *C.M.* 1937
Vet. Adm. Hosp.,
Long Beach, Calif.
MEKKELSEN, CHRISTINE, exec. a. (*R.N.*)
M. G. H.
MELBIN, M., a. soc. sc. (*McL.*)
McLean Hosp., Belmont
Mellinger, G. W., *M.* 1947
490 Post, San Francisco, Calif.

MELLO, NANCY K., a. psychol.
M. G. H.

Melvin, W. J. S., a.r.s. *Or.* 1951
Kingston Gen. Hosp.,
Kingston, Ontario, Canada

Mendelsohn, M. L., *M.* 1949
Hosp. of Univ. of Pennsylvania,
Philadelphia, Pa.

MENDELSON, J. H., assoc. psychiat.
M. G. H.

Merrill, B. R., a.r.p. *Psychiat.* 1941
22 Peninsula Rd., Belvedere, Calif.

MESSNER, E., a. psychiat.
Zero Emerson Pl.

Metcalf, K. M., r.p. *C.M.* 1925
115 E. 77th, New York, N. Y.

Meyer, H. I., r.s. *W.S.* 1925
104 S. Michigan Ave., Chicago, Ill.

Michel, A. J. D., a.r.p. *An.* 1950
70 rue Parmentier,
Lyon, France

MICHELSEN, J. J., clin. assoc. *N.S.*; a.r.s. *N.S.* 1938
M. G. H.

Michie, A. J., *Path.* 1943; r.s. *U.* 1945
Children's Hosp. of Philadelphia
Philadelphia, Pa.

Michie, Catherine R., *Path.* 1943; r.p. *Path.* 1944
500 Bridle Rd.,
Glenside, Pa.

Middlebrook, G., *M.* 1945
National Jewish Hosp.,
Denver, Colo.

Milam, D. F., Jr., *S.* 1949; a.r.s. 1952
27 103rd Ave., N.E.,
Bellevue, Wash.

Millard, D. G., r.p. *R.* 1960
Box 503, Jaffrey Center, N. H.

MILLER, ABBOTT R., r.p. *R.*
M. G. H.

Miller, Alfred E., *S.* 1957; a.r.s. 1958
Hamburg-Schenefeld,
OPM, Blockhorn 5-A
Germany

MILLER, C. C., clin. assoc. *S.* (*W.S.* 1938)
304 Humphrey, Swampscott

MILLER, D., s. *Otolar.*
60 Charlesgate West

Miller, E. C., *E.M.* 1926
7 Military Rd., Worcester

Miller, James G., *E.M.* 1943; r.p. *Psychiat.* 1944
Mental Health Res. Inst., Univ. of
Michigan, Ann Arbor, Mich.

Miller, Jule P., Jr., a.r.p. *Psychiat.* 1955
222 South, Pittsfield

Miller, M. L., *E.M.* 1932
Univ. of North Carolina Sch.
of Med., Chapel Hill, N. C.

Miller, R. Bretney, a.r.p. 1938
1834 Eye, N. W., Washington, D. C.

Miller, Ralph B., r.p. *R.* 1932
Box 6043, Alamo Heights Station,
San Antonio, Tex.

Miller, W. L., a.r.p. *Path.* 1961
Louisville Gen. Hosp.,
Louisville, Ky.

Millet, J. B., *W.S.* 1943; a.r.s. 1948
2 Jordan Rd., New Hartford, N. Y.

MILLS, J. A., a. *M.*; r.p. 1958
M. G. H.

Mills, L., Jr., *M.* 1944
1136 W. 6th, Los Angeles, Calif.

MINER, R. L., a. oral s.
363 Marlborough

Ming, Si Chun, r.p. *Path.* 1956
Beth Israel Hosp.

Mintz, E. R., *Path.* 1930; r.s. *U.* 1932
18 Rundlett, Concord, N. H.

Mirkin, G. B., a.r.p. *C.* 1963
Johns Hopkins Hosp.,
Baltimore, Md.

MISCH, R. C., assoc. psychol. *Psychiat.*
M. G. H.

Mitchel, D. H., *M.* 1943; a.r.p. 1947
3535 Cherry Creek North Dr.,
Denver, Colo.

Mitchell, D. C., a.r.s. *Or.* 1963
Henry Ford Hosp., Detroit, Mich.

Mitchell, Ruth, res. assoc. *D.*
M. G. H.

Mittel, N. S., r.p. *Psychiat.* (*McL.*) 1959
Medfield State Hosp.,
Harding

Mixter, C. G., *W.S.* 1907
165 Sargent Rd., Brookline

MIXTER, C. G., Jr., a.s. (*W.S.* 1940); r.s. 1947
319 Longwood Ave.

Mixter, G., Jr., *W.S.* 1943
Flower and Fifth Ave. Hosp.,
New York, N. Y.

Mnaymneh, W. A., sr. r.s. *Or.* 1962
American Univ. Hosp.,
Beirut, Lebanon

MOBILIA, EVELYN, exec. a. (*R.N.*)
M. G. H.

MODELL, A. H., assoc. attend. psychiat. (*McL.*)
1419 Beacon,
Brookline

MOELLERING, R. C., Jr., a.r.p. (*M.* 1963)
M. G. H.

Moffitt, H. C., Jr., *E.M.* 1942
909 Hyde, San Francisco, Calif.

MOKRASCH, L. C., a. biochem. (*McL.*) McLean Hosp., Belmont

MOLLIVER, M. E., *C.* M. G. H.

Molloy, Maureen K., a.r.s. *Or.* 1962 Harvard Sch. of Public Health, 55 Shattuck

MONACO, A. P., a. *S.* (*S.* 1957); r.s. 1963 M. G. H.

Monahan, J. J., a.r.s. *Or.* 1962 111 Sayles, Salem

MONCURE, A. C., a.r.s. (*S.* 1961) M. G. H.

Monroe, J. T., Jr., *M.* 1956 Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

Montgomery, H., *E.M.* 1932 Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.

Montgomery, O. F., *E.S.* 1916 890 Coleman Ave., Menlo Park, Calif.

MONTGOMERY, W. W., assoc.s. *Otolar.* Mass. E. & E. Inf.

MOOLTON, F. L., *M.* M. G. H.

Moore, B. E., r.p. *Psychiat.* 1942 152 E. 73rd, New York, N. Y.

MOORE, F. D., *Bd. of Cons.* (*W.S.* 1940); r.s. 1943 Peter Bent Brigham Hosp.

MOORE, G. T., *M.* M. G. H.

Moore, R. F., *M.* 1954 425 North, Randolph

Moore, S. Halcuit, Jr., *C.M.* 1937 4105 Live Oak, Dallas, Tex.

*Moore, W. R., *S.* 1963 c/o Peace Corps, Box 63, Buea, West Cameroon, Africa

Moorman, H. D., *W.S.* 1943; a.r.s. 1949 65 N. Madison Ave., Pasadena, Calif.

Mora, F., *M.* 1951; a.r.s. 1953; r.s. *N.S.* 1957 717 Encino Pl., N. E., Albuquerque, N. M.

Moran, J. E., *N.* 1928 219 Federal, Greenfield

Moran, T. W., Jr., a.r.p. *Path.* 1950 Mellon National Bank Bldg., Latrobe, Pa.

Moreton, J. R., *W.S.* 1944; j.r.s. 1945 45 Meadowbrook Rd., Weston

Morgan, C. L., a.r.p. *C.M.* 1960 124 Mitchell Ave., East Meadow, N. Y.

Morgan, William L., Jr., *M.* 1953; r.p. 1957 Univ. of Rochester Sch. of Med. and Dn., Rochester, N. Y.

Morgan, Winfield S., r.p. *Path.* 1951 Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio

Morris, H. D., *Or.* 1937 1514 Jefferson Highway, New Orleans, La.

Morris, J. McL., *E.S.* 1942; a.r.s. 1947 Yale Univ. Sch. of Med., New Haven, Conn.

MORRIS, P. J., a.r.s. M. G. H.

MORRIS, R. H., a. *An.*; c.r.p. *An.* 1963 M. G. H.

Morrison, G. M., *Or.* 1941 77 San Mateo Dr., San Mateo, Calif.

Morrison, H. R., *E.M.* 1936; r.p. *R.* 1939 370 Marlborough

Morrison, R. W., *E.S.* 1943 65 Sunset Parkway, Asheville, N. C.

MORRISSEY, A. M., a.s. *Oph.* 24 Rural Ave., Medford

Morrissey, E. James, *Or.* 1935; r.s. *Or.* 1936 1121 Penn Ave., Wyomissing, Wyomissing, Pa.

MORRISSEY, EUGENE J., a.r.s. *Or.* M. G. H.

Morse, G. W., *E.S.* 1910; h.s. *E.S.* 1912 121 Nichols Rd., Cohasset

Morton, J. J., h.s. *E.S.* 1916 Strong Memorial Hosp., Rochester, N. Y.

MOSER, H. W., a.n.; r.p. *N.* 1959 M. G. H.

MOSHER, H. A., assoc. s. *Oph.* 266 Beacon

Moss, A. J., *M.* 1958; a.r.p. 1961 115 Sussex Rd., Rochester, N. Y.

MOSS, G. S., a.r.s. (*S.* 1961) M. G. H.

Mote, J. R., *W.M.* 1937 11 E. 68th, New York, N. Y.

Moyer, D. LaR., a.r.p. *Path.* 1955 Los Angeles County Harbor General Hosp., Torrance, Calif.

Mudd, S. Harvey, *M.* 1954 National Inst. of Health, Bethesda, Md.

Mudd, Seeley G., *W.M.* 1926 523 W. 6th, Los Angeles, Calif.

Mueller, Barbara C., r.p. *Psychiat.* (*McL.*) 1959 Beth Israel Hosp.

*Not in States and Cities section of this Directory

MUELLER, E. H. J., a. psychiat. (*McL.*); r.p. *Psychiat.* 1958; r.p. *Psychiat.* (*McL.*) 1960
707 Commonwealth Ave., Newton Centre

MUELLER, G. C. E., a.r.s. (*S.* 1958) M. G. H.

MUELLER, H. PETER, clin. assoc. *R.* 39 Tyler Rd., Belmont

Mueller, Harry L., *C.M.* 1935
Children's Med. Center

MUIRHEAD, D. M., Jr., a. *Pediat.; C.M.* 1960; a.r.p. *C.* 1961
454 Brookline Ave., Brookline

Mulford, E. H., II, a.r.s. *N.S.* 1947
748 Post Rd., Darien, Conn.

Müller, A. F., a.r.p. 1953
Hôpital Cantonal, Geneva, Switzerland

MULLER, J. J., a. psychol. M. G. H.

*Mundth,, E. D., *S.* 1960; a.r.s. 1962
2613 Holman Ave., Silver Spring, Md.

Munro, Jeannette, *C.M.* 1929
2 Queenston Pl., Princeton, N. J.

Munro, N. D., *E.S.* 1942; r.s. 1944
740 W. Michigan Ave., Jackson, Mich.

Murphy, G. B., Jr., *S.* 1952; a.r.s. 1957
Gundersen Clinic, La Crosse, Wis.

Murphy, Grace L., r.p. *D.* 1930
601 S. Bowman Ave., Merion Station, Pa.

MURPHY, H. J., assoc. dir. M. G. H.

MURPHY, J. D., a. *An.;* a.r.p. *An.* 1963 M. G. H.

MURPHY, W. F., attend. psychiat. (*McL.*) 82 Marlborough

Murray, D. B., a.r.p. *Path.* 1956
The Geisinger Med. Center, Danville, Pa.

MURRAY, J. E., clin. assoc. *S.*
Peter Bent Brigham Hosp.

Musgrave, Rhoda U., r.p. *Psychiat.* (*McL.*) 1937 Nevada State Hosp., Reno, Nev.

Mushatt, C., r.p. *Psychiat.* 1946
1093 Beacon, Brookline

MYERS, G. S., assoc. p. (*W.M.* 1942); c.r.p. 1943 Zero Emerson Pl.

NADAS, A. S., cons. *C.*
Children's Med. Center

NALEBUFF, E. A., a. *Or.*
18 Moore, Belmont; 1180 Beacon, Brookline

NARDI, G. L., assoc. v.s. (*E.S.* 1945); r.s. 1951 M. G. H.

Nathan, L., *Or.* 1930
Vet. Adm., Outpatient Clinic, 17 Court

NEBESAR, R. A., a. *R.;* r.p. *R.* 1963 M. G. H.

Nellhaus, G., *C.M.* 1957; c.r.p. *C.M.* 1959
1024 Maple Ave., Evanston, Ill.

Nelson, C., *E.S.* 1939 490 Post, San Francisco, Calif.

Nelson, R. M., a.r.s. 1954
508 East South Temple, Salt Lake City, Utah

NEMIAH, J. C., psychiat.; a.r.p. *Psychiat.* 1949 M. G. H.

Neptune, E. M., *E.S.* 1928
726 W. Onondaga, Syracuse, N. Y.

Nesche, G. E., r.p. *W.M.* 1929
411 30th, Oakland, Calif.

NEUHAUSER, E. B. D., cons. *R.*
Children's Med. Center

NEUMANN, CHARLOTTE G., a. pediat. Children's Develop. Clinic, Cambridge Health Dept., Cambridge

NEUMANN, E. T., admin. M. G. H.

Neville, C. W., Jr., r.p. *Psychiat.* (*McL.*) 1959
State Univ. of New York, Downstate Medical Center, Brooklyn, N. Y.

NEW, P. F. J., assoc. r. M. G. H.

Newell, James W., *W.S.* 1943; j.r.s. 1944 Medical Plaza, Palo Alto, Calif.

NEWELL, JOHN L., clin. assoc. *Obst.* (*E.S.* 1932) 1101 Beacon, Brookline

Newhall, H. F., *E.S.* 1906 Lynnfield

Newman, E. V., *C.M.* 1941
Vanderbilt Univ. Sch. of Med., Nashville, Tenn.

Newman, H. A., a.r.p. *C.M.* 1960
14 Soundview Ave., White Plains, N. Y.

Newstedt, J. R., r.s. 1950
108 William Howard Taft Rd., Cincinnati, Ohio

Nicholson, J. T., r.s. *Or* 1933
419 S. 19th, Philadelphia, Pa.

Nicosia, A. P., a.r.p. *C.M.* 1949
1554 Northern Blvd., Manhasset, Long Island, N. Y.

Nielsen, T. W., *S.* 1949; a.r.s. 1953
60 S. 4th, East, Salt Lake City, Utah

NIKAIDO, H., a. biochem. *Biochem. Res.* M. G. H.

*Not in States and Cities section of this Directory

Nilges, R. G., r.s. *N.S.* 1951
700 N. Michigan Ave., Chicago, Ill.
NILSSON, S. E. H., an. pro-tempore
M. G. H.
Noble, C. A., Jr., *E.M.* 1931
384 Post, San Francisco, Calif.
NOBLE, J., Jr., *M.* M. G. H.
Nobles, E. R., Jr., *S.* 1955; a.r.s. 1961
Sanders Clinic, Baptist Med. Bldg.,
Memphis, Tenn.
Noone, P. F., a.r.p. *An.* 1963
M. G. H.
Norbury, F. B., *M.* 1949
1631 Mound Ave.,
Jacksonville, Ill.
Norcross, J. W., *E.M.* 1937
Lahey Clinic
Normann, N., a.r.p. *An.* 1951
Eastern Pennsylvania Psychiatric Inst.,
Philadelphia, Pa.
NORTON, P. L., *Bd. of Cons.* (*Or.* 1933); r.s. *Or.* 1934
Concord Med. Center, Concord
NOSS, G. M., clin. assoc. *Dn. M.*
31 Bay State Rd.
NOVY, M. J., *S.* M. G. H.
NUTTALL, R. L., a Soc. Sc. (*McL.*)
McLean Hosp., Belmont
NYILAS, E., a. physicist *M.*
M. G. H.
OAKLEY, J. C., a.dn.s. (*Dn.* 1959)
507 Main, Worcester
O'Brien, F. W., Jr., a.r.p. *R.* 1951
1905 Duke Dr., Bakersfield, Calif.
O'BRIEN, RICHARD G., clin. assoc. *R.* 697 Cambridge, Brighton
O'Brien, Robert M., *Or.* 1941
950 Francis Pl., St. Louis, Mo.
O'Brien, W. M., *M.* 1957; a.r.p. 1958
6006 Dellwood Place,
Bethesda, Md.
O'Connor, D. S., *Or.* 1925
237 Edwards, New Haven, Conn.
O'Connor, H., a.r.s. *Or.* 1953
689 Fellsway, Medford
Odland, G. F., *M.* 1947; r.p. *D.* 1954
Univ. of Washington, Sch. of Med.
Seattle, Wash.
OFFENBACH, BERTHA, a. *Oph.*
51 Homer, Newton Centre
Ogden, R. T., *C.M.* 1925
85 Jefferson, Hartford, Conn.
OJEMANN, R. G., a. *N.S.*; r.s. *N.S.* 1961 M. G. H.
OKAMURA, I. D., a.s. *Oph.*
Mass. E. & E. Inf.
O'KEEFE, D. D., a.r.s. (*S.* 1963)
M. G. H.
O'KEEFE, E. S., hon. p.
31 Broad, Lynn
O'Keeffe, A. F., a.r.s. 1951
1895 E. Valley Rd.,
Santa Barbara, Calif.
Okun, M. R., a.r.p. *D.* 1960
1683 Beacon, Brookline
OLIN, H. S., a psychiat.; M. G. H.
OLIN, M. J., dn. s.
29 Commonwealth Ave.
OLIVE, G. M., Jr., a. *Oph.*
18 Moore, Belmont
O'Malley, A. F., a.r.s. *U.* 1957
496 South, Hyannis
Omer, J. A., *Or.* 1912
2648 E. 7th, Tucson, Ariz.
Organick, A. B., *M.* 1952; a.r.p. 1953
Milwaukee County Hosp.,
Milwaukee, Wis.
Ormandy, L., *Or.* 1943
3109 10th, North, Arlington, Va.
O'ROURKE, H. J., a. podiatrist *Or.*
111 Main, Peabody
Orski, Barbara M., *C.M.* 1955; a.r.p. *C.M.* 1956
Kaiser Foundation Hosp.,
Oakland, Calif.
Osborn, June E., j.a.r.p. *C.* 1963
Children's Med. Center
Osborne, R. K., *M.* 1957; r.p. 1962
Dedham Med. Associates,
743 High, Dedham
Osgood, Herman A., h.p. *R.* 1919
Josiah B. Thomas Hosp., Peabody
Osgood, Howard, *E.M.* 1917
187 Linwood Ave., Buffalo, N. Y.
O'Shea, Clare Marshall, r.p. *N.* 1954
Enosburg Falls, Vt.
O'SHEA, J. A., clin. assoc. *C.*; a.r.p. *C.M.* 1950 339 Haverhill, Lawrence
Osius, E. A., *W.M.* 1923
David Whitney Bldg.,
Detroit, Mich.
O'Sullivan, Renée B., a.r.p. *C.M.* 1957
249 Dudley Rd.,
Newton Centre
OTTINGER, L. W., a.r.s. (*S.* 1961)
M. G. H.
OTTO, W. J., Jr., a.r.p. *R.* M. G. H.
OUELLETTE, EILEEN M., a.r.p. *C.* (*C.* 1963) M. G. H.
Owen, W. R., *M.* 1950; r.p. 1952
6410 Fannin,
Houston, Tex.
Owyang, Pauline, *C.M.* 1943
3022 Elba Rd.,
Alexandria, Va.

Packard, G. B., *E.S.* 1916; h.s. *E.S.* 1917
227 16th, Denver, Colo.
Packert, R. C., r.p. *R.* 1958
Memorial Hosp. for Cancer and Allied Diseases, New York, N. Y.
PAGE, L. B., a.p. (*M.* 1950); r.p. 1956
M. G. H.
PALMER, R. S., *Bd. of Cons.* (*W.M.* 1927)
330 Dartmouth
PANT, S. S., a.r.p. *N.*
M. G. H.
Papadopoulos, D. A., r.s. *U.* 1956
81 Egnatias, Thessaloniki, Greece
PAPARELLA, M. M., a. *Otolar.*
Mass. E. & E. Inf.
Papazian, C. E., a.r.p. *C.M.* 1960
Permanente Med. Group, Fontana, Calif.
Pappas, A. M., a.r.s. *Or.* 1963
Children's Med. Center
Parker, G. D., *Dn.* 1939
4919 E. 38th Ave., Denver, Colo.
Parker, Jack S., *W.S.* 1946
3 Seaward Rd., Wellesley Hills
Parker, John C., *M.*, 1962; a.r.p. 1963
National Inst. of Health, Bethesda, Md.
Parkhurst, A. E., *W.M.* 1919
Beverly Hosp., Beverly
PARKHURST, E. C., a. u.; r.s. *U.* 1958
M. G. H.
Parnall, E., *Or.* 1932
1 Med. Arts Sq., Albuquerque, N. M.
Parson, W., c.r.p. 1942
Sch. of Med., Univ. of Virginia, Charlottesville, Va.
PARSONS, L., *Bd. of Cons.* (*W.S.* 1929)
203 Commonwealth Ave.
PASHO, WILLA F., admin. a. (*McL.*)
McLean Hosp., Belmont
PATHAK, M. A., a. biochem. *D.*
M. G. H.
Patterson, H. E., a.r.p. *C.M.* 1952
210 S. 11th Ave., Yakima, Wash.
Patterson, Robert L., Jr., *Or.* 1935
166 E. 63rd, New York, N. Y.
Patterson, Russel H., *E.S.* 1919; h.s. *U.* 1920
166 E. 63rd, New York, N. Y.
PATTON, A. S., a.r.s. (*S.* 1959)
M. G. H.
Paul, J. R., Jr., *C.M.* 1943
Medical College Hosp., 55 Doughty, Charleston, S. C.
Paul, O., *W.M.* 1943
Passavant Memorial Hosp., Chicago, Ill.
PAVLO, I. L., a. *Oph.* 330 Dartmouth
Peabody, H. D., Jr., *M.* 1945
2001 4th Ave., San Diego, Calif.
PEARL, D. C., Jr., a.r.s. (*S.* 1959)
M. G. H.
Pearse, R. L., *E.S.* 1934
1821 Green, Durham, N. C.
Pearson, C. M., a.r.p. *Path.* 1948
Univ. of California Med. Center, Los Angeles, Calif.
Pearson, O. H., *W.M.* 1941; a.r.p. 1942
Western Reserve Univ. Sch. of Med., Cleveland, Ohio
PECHET, M. M., a. *M.*; a.r.p. 1952
M. G. H.
Pederson, D. P., c.r.p. *An.* 1957
650 S. Central Ave., Marshfield, Wis.
PEEBLES, R. R., assoc. psychol.
M. G. H.
PEEBLES, T. C., assoc. pediat. (*C.M.* 1952); c.r.p. *C.M.* 1955
100 Summer, Weston
Peete, W. P. J., *S.* 1948; r.s. 1953
Duke Univ. Med. Center, Durham, N. C.
Peiffer, Geraldine M., a.r.p. *An.* 1957
5217 Hohman Ave., Hammond, Ind.
PENDERGRASS, H. P., a.r. M. G. H.
Perkins, A., *E.S.* 1925
813 Ogden Canyon, Ogden, Utah
Perkins, J. F., Jr., *W.S.* 1938
Univ. of Chicago, Chicago, Ill.
Perkins, W. A., *E.S.* 1917; h.s. *E.S.* 1919
3001 Benvenue Ave., Berkeley, Calif.
Perley, A. I., r.p. *D.* 1948
2030 11th Ave., South, Birmingham, Ala.
PERLO, V. P., n.
M. G. H.
Perrin, G. M., *C.M.* 1953; a.r.p. *C.M.* 1954
111 N. 49th, Philadelphia, Pa.
Perry, J. W., r.p. *Psychiat.* (*McL.*) 1947
2206 Steiner, San Francisco, Calif.
PERRY, JALNA A., a. psychiat.; r.p. *Psychiat.* (*McL.*) 1959
McLean Hosp., Belmont
PERRY, W., Jr., a. *R.*
M. G. H.
Persons, E. L., *E.M.* 1929; r.p. *E.M.* 1930
Duke Univ. Med. Center, Durham, N. C.
Peters, J. H., *W.M.* 1943
Veterans Administration, Central Office, Washington, D. C.

Petersen, J. A., r.p. *R.* 1956
16 Clarke, Lexington

Peterson, E. W., *M.* 1944; a.r.p. 1947
Arneill Clinic, Denver, Colo.

Peterson, Harold O., a.r.p. *R.* 1936
Univ. of Minnesota Hosp.,
Minneapolis, Minn.

Peterson, Hart deC., a.r.p. *C.* 1961
Univ. of Washington Sch. of Med.,
Seattle, Wash.

Petranek, J. R., *M.* 1954; a.r.p. 1955
2 Poplar, Ipswich

PFEFFER, W., Jr., clin. assoc. *C.*
3 Seaward Rd., Wellesley

Phelps, W. M., *Or.* 1922 and *Thd. S.* 1923
3038 St. Paul,
Baltimore, Md.

PHILIPSON, J. B., Jr., *S.* M. G. H.

Phillips, E. B., II, *C.M.* 1948; a.r.p. *C.M.* 1949
American Child Guidance
Foundation, 18 Tremont

Phippen, W. G., *S.S.* 1906
31 Chestnut, Salem

PICARD, E. H., a.n.; a.r.p. *N.* 1957
M. G. H.

PICK, W., clin. assoc. *C.;* r.p. *C.M.* 1947
42 Fox, Fitchburg

Pickard, N. S., *Or.* 1940
411 Nichols Rd., Kansas City, Mo.

PIER, A. S., Jr., assoc.p. (*W.M.* 1941); a.r.p. 1942
266 Beacon

Pier, G., *W.S.* 1943
Box 68, Truckee, Calif.

PIERCE, D. L., a. *Otolar.*
Mass. E. & E. Inf.

Pierce, F. D., r.p. *W.M.* 1931
619 E. Broward Blvd.,
Fort Lauderdale, Fla.

Pietra, G. G., a.r.p. *Path.* 1962
Rheinparkstr, Birsfelden,
Basel, Switzerland

Pike, M. M., *Or.* 1929
Old Mountain Rd., Farmington,

Pillsbury, P. L., *W.M.* 1942
3512 Clay, San Francisco, Calif.

PINALS, R. S., clin. assoc. *M.*
Lemuel Shattuck Hosp.

Pinckney, M. M., *W.M.* 1932
3500 Kensington Ave.,
Richmond, Va.

PIPPITT, R. B., a.s. *Oph.* (*E.M.* 1938 and *Path.* 1939); a.r.p. *N.* 1941
328 Washington, Wellesley Hills

PITTMAN, HELEN S., *Bd. of Cons.*
M. G. H.

Pittman, J. A., Jr., *M.* 1953; a.r.p. 1954
Vet. Adm. Hosp., Birmingham, Ala.

Pitts, J. D., *S.* 1950; a.r.s. 1956
110 Lockwood, Providence, R. I.

Placak, J. C., Jr., *W.S.* 1936
Tyron Med. Associates,
100 Jervey Rd., Tryon, N. C.

PLOTKIN, L. H., clin. assoc. *C.* (*C.M.* 1955); a.r.p. *C.M.* 1956
Williams, at Ridge Rd.,
Longmeadow

Pohl, J. F., *Or.* 1934
Medical Arts Bldg., 78 S. 9th.
Minneapolis, Minn.

POINT, W. W., assoc.p. M. G. H.

Polak, A., a.r.p. *Path.* 1961
Univ. of Washington Sch. of Med.,
Seattle, Wash.

POLANSKY, S. C., a.dn.s.
60 Washington, Salem

POLLARD, JAMES J., a. *R.;* r.p. *R.* 1963
M. G. H.

Pollard, John T., Jr., r.p. *R.* 1959
236 Highland Ave., Somerville

POLLEN, A., assoc.s. *Oph.*
636 Beacon

PONTOPPIDAN, H., assoc. an.; c.r.p. *An.* 1958
M. G. H.

POPE, A., n.p. (*McL.*)
McLean Hosp., Belmont

Porter, H., r.p. *N.* 1946
New Eng. Center Hosp.

PORTER, P. J., a. pediat.; *C.M.* 1957; a.r.p. *C.M.* 1958
Boston City Hospital

Porvaznik, J. T., Jr., *S.* 1959; a.r.s. 1962 U. S. Public Health Service,
Indian Hosp., Tuba City, Ariz.

POSKANZER, D. C., a. n.; r.p. *N.* 1959
M. G. H.

POSTEL, S., a. *M.* 75 Mount Auburn,
Cambridge

POTSAID, M. S., assoc.r.; r. (*McL.*); r.p. *R.* 1957
M. G. H.

POTTER, M. G., a. psychiat.
1419 Beacon, Brookline

Potts, J. T., *M.* 1958; a.r.p. 1959
National Inst. of Health,
Bethesda, Md.

POULES, RUTH E., exec. a. *B.M.* (*R.N.*)
M. G. H.

POULIN, F. K., dn.s. (*Dn.* 1942)
196 Marlborough

Powell, S. M., Jr., a.r.p. *C.M.* 1947
Jefferson Med. Group,
811 S. 20th, Birmingham, Ala.

Prather, G. C., *E.S.* 1925
1180 Beacon. Brookline
Pratt, T. C., *E.S.* 1929
Deaconess Med. Office Bldg., 110 Francis
Prensky, A. L., a.r.p. *N.* 1961 M. G. H.
PRESCOTT, R., a. *M.* (*M.* 1960); r.p. 1963 330 Dartmouth
PRICE, D. L., a.r.p. *N.* M. G. H.
Price, S. E., Jr., *S.* 1955; a.r.s. 1958; r.s. *U.* 1961
Peoples East End Bldg., Pittsburgh, Pa.
Prindle, K. H., *N.* 1926 and *W.S.* 1928 865 Culebra Rd., Hillsborough, Calif.
Probst, J.-H., a.r.p. *C.M* 1957
Rigshospitalet, Copenhagen, Denmark
Prus, A. M., c.r.p. *An.* 1961
Grace Hosp., Detroit, Mich.
PRYLES, C. V., a. pediat.
Boston City Hosp.
PUTNAM, G., *Associate Trustee*
60 Congress
Putnam, H. M., *E.M.* 1937
1025 High, Dedham
Putnam, J. J., *C.M.* 1920
30 School, Foxboro
Putnam, T. J., *E.S.* 1923
450 N. Bedford Dr., Beverly Hills, Calif.
PUTSCHAR, W. G. J., cons. *Path.* M. G. H.
Quan, S. H. Q., *Path.* 1947
44 E. 67th, New York, N. Y.
QUARTON, G. C., psychiat.; r.p. *N.* 1947; r.p. *Psychiat.* 1949; sr.r.p. *Psychiat.* (*McL.*) 1950 M. G. H.
QUINBY, J. T., a.p. (*E.M.* 1941) M. G. H.
QUINBY, W. C., Jr., a.s.; r.s. 1950 M. G. H.
Quinn, T. J., Jr., r.p. *An.* 1950
2217 Webster, San Francisco, Calif.
RABB, S. R., *Trustee*
393 D, S. Boston
RABE, E. F., a. pediat.
New Eng. Med. Center
Rabinowitz, M., a.r.p. 1955
Dept. of Med., Univ. of Chicago, Chicago, Ill.
RABKIN, M. T., a. *M.* (*M.* 1956); c.r.p. 1962 M. G. H.
RACKEMANN, F. M., hon. p. (*E.M.* 1914) 263 Beacon
Radcliffe, E. J., *Or.* 1925
833 Riviera, Venice, Fla.
Radebaugh, J. F., Jr., *C.M.* 1954; a.r.p. *C.M.* 1955
26 S. Goodman, Rochester, N. Y.
RADIN, E. L., a.r.s. *Or.* M. G. H.
RAE, D. B., dn.s.
Emory at Park, Attleboro
Ragland, S., Jr., *M.* 1951; a.r.p. 1952
Aviation Med. Acceleration Lab., Naval Air Development Center, Johnsville, Pa.
Ragsdale, L. V., past a. dir.
627 Prospect, Fall River
RAKER, J. W., assoc. v.s. (*E.S.* 1942); r.s. 1949 M. G. H.
Ramcharan, Savitri, *C.M.* 1954
Stanford Univ. Sch. of Med., Palo Alto, Calif.
Randall, Raymond V., *M.* 1946
Mayo Clinic, Rochester, Minn.
*Randall, Russell E., Jr., a.r.p. 1956
Vet. Adm. Hosp., Jamaica Plain
Randolph, J. G., a.r.s. 1958
Children's Med. Center
RAPIN, ANNETTE M. C., a. biochem. *Biochem. Res.* M. G. H.
RAPOPORT, R. N., cons. *Soc. Sc.* (*McL.*) McLean Hosp., Belmont
Rappleye, W. C., *W.M.* 1919
Josiah Macy, Jr. Foundation, 16 W. 46th, New York, N. Y.
Rasmussen, H., *M.* 1953; a.r.p. 1955 *C.M.* 1955
1240 Wellesley Rd., Madison, Wis.
Rasmussen, Jane S., *C.M.* 1954; a.r.p. 1240 Wellesley Rd., Madison, Wis.
Ratcliffe, J. W., *W.S.* 1946
104 St. Matthews Ave., San Mateo, Calif.
Rauh, A. E., *C.M.* 1936 725 S. 2nd, Springfield, Ill.
Ray, L. F., r.p. *D.* 1939
Medical Dental Bldg., Portland, Oreg.
REAGAN, D. J., a. *Otolar.*
507 Main, Worcester
Rebello, D. J. A., a.r.p. *D.* 1954
Liverpool, Royal Infirmary Liverpool, England
RECORD, E. E., a.s. *Or.* (*N.S.* 1937 and *Or.* 1941) M. G. H.
Reed, C. R., Jr., *Or.* 1936
2520 Line Ave., Shreveport, La.
REED, G. F., assoc. s. *Otolar.*
Zero Emerson Pl.

*Reed, J. M., *S.* 1961; *a.r.s.* 1962
U.S. Public Health Service,
U.S. Surgical Division,
Nha Trang, South Vietnam

Reeves, R. J., r.p. *R.* 1926
Duke Univ. Med. Center,
Durham, N. C.

REGAN, C. D. J., a.s. *Oph.*
99 W. Cedar

Register, J. F., *Or.* 1936
1008 Professional Village,
Greensboro, N. C.

REID, D. E., *Bd. of Cons.*
221 Longwood Ave.

Reid, Elizabeth Aub, *M.* 1952
30 Arlington, Cambridge

REIDY, J. A., a.s. *Or.* (*Or.* 1939)
3 Seaward Rd., Wellesley Hills

*Reilly, W. A., *C.M.* 1928
c/o American Embassy, A.P.O. 156,
San Francisco, Calif.

REINECKE, R. D., a. *Oph.*
Mass. E. & E. Inf.

REISER, D. E., assoc. psychiat.
M. G. H.

REMENSNYDER, J. P., Jr., a.r.s.
(*S.* 1958) M. G. H.

REVER, G. W., a *Psychiat.* M. G. H.

Revercomb, P. H., a.r.p. 1933
1031 Quarrier, Charleston, W. Va.

REYERSBACH, GERTRUD C., assoc.
pediat. (*C.M.* 1943); r.p. *C.M.*
1945 330 Dartmouth

Reynolds, G. S., r.s. *Thd. S.* 1924
Oblong Rd., Williamstown

REYNOLDS, S. L., a. *Pediat.;* a.r.p. *C.*
1963 M. G. H.

Rhinelander, F. W., *E.S.* 1937 and
Or. 1938
Cleveland Metropolitan Gen. Hosp.,
Cleveland, Ohio

RHODES, F. I., dn.s.
1352 Beacon, Brookline

Rhodes, J. S., r.s. *U.* 1935
700 W. Morgan, Raleigh, N. C.

RICE, J. O., a. *Psychiat.;* r.p. *Psychiat.*
(*McL.*) 1959 M. G. H.

RICH, J. G., a.r.s. *Or.* M. G. H.

Richards, D. N., *E.S.* 1912
166 Tunnel Rd., Berkeley, Calif.

Richards, D. N., Jr., *W.S.* 1943; a.r.s.
1948 3031 Telegraph Ave.,
Berkeley, Calif.

Richards, R. S., r.p. *R.* 1958
Salem Hosp., Salem

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RICHARDSON, EDWARD P., n. and
n.p. (*M.* 1943); r.p. *Psychiat.* 1947
M. G. H.

RICHARDSON, ELLIOT L., *Trustee*
50 Federal

RICHARDSON, G. S. assoc. v.s. (*W.*
S. 1947); r.s. 1954 M. G. H.

RICHARDSON, J. R., s. *Otolar.*
403 Commonwealth Ave.

Richardson, W. R., *W.S.* 1945; a.r.s.
1950
Children's Memorial Hosp.,
Oklahoma City, Okla.

RICHIE, R. H., Jr., assoc. pediat.;
a.r.p. *C.M.* 1957
330 Mount Auburn, Cambridge

Riddell, R. V., *E.S.* 1943 and *Path.*
1947 902 Edmond, St. Joseph, Mo.

RIEDER, S. V., c. *Clin. Chem. Lab.*
M. G. H.

Riege, D. H., *C.M.* 1947
81 S. Main, West Hartford,
Conn.

RIEMER, K., assoc. s. *Oph.*
403 Commonwealth Ave.

Riley, A., *S.S.* 1909
50 Marshal, Brookline

RISEBOROUGH, E. J., a. *Or.*
M. G. H.

Risley, T. S., *E.S.* 1942; r.s. 1947
Beverly Hosp., Beverly

Ritchie, A. C., a.r.p. *Path.* 1954
Dept. of Path., Univ. of Toronto,
Toronto, Canada

Robbins, J. B., *C.M.* 1960; a.r.p. *C.*
1961
Univ. of Florida Coll. of Med.,
Gainesville, Fla.

ROBBINS, L. L., c. *R.;* r.p. *R.* 1941
M. G. H.

Roberts, C. D., a.r.p. 1938
600 Palisade Ave.,
Englewood Cliffs, N. J.

Robertson, C. W., *Path.* 1942 and *E.S.*
1943; r.s. 1947
203 Commonwealth Ave.

ROBERTSON, J. D., assoc. biophys.
(*McL.*) McLean Hosp., Belmont

Robertson, O. H., *W.M.* 1914
9150 Los Gatos Highway,
Santa Cruz, Calif.

ROBEY, J. S., a. pediat. (*C.M.* 1953);
a.r.p. *C.M.* 1956 51 Brattle,
Cambridge

Robillard, Francoise Robert, a.r.p.
Path. 1956 1676 Van Horne Ave.,
Montreal, Canada

Robillard, R. L., a.r.p. *N.* 1957
1676 Van Horne Ave.,
Montreal, Canada
Robins, E., a.r.p. *Psychiat.* 1945
Washington Univ. Sch. of Med.,
St. Louis, Mo.
ROBINGSON, D. R., a. *M.* (*M.* 1958); a.r.p. 1961 M. G. H.
ROBINSON, ESTHER H.. *C.*
M. G. H.
ROBINSON, J. C., j.a.r.p. *C.* M.G.H.
ROBINSON, M., a. *Otolar.*
206 Waterman, Providence, R. I.
ROBINSON, P. M., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1960
McLean Hosp., Belmont
ROBINSON, W. A., a.r.p. (*M.* 1963)
M. G. H.
ROCK, J., hon. s. (*W.S.* 1919)
77 Glen Rd., Brookline
Rockey, E. W., *E.S.* 1914
Box 101, Arch Cape, Oreg.
Rodgers, R. S., r.s. *U.* 1947
825 Nicollet Ave.,
Minneapolis, Minn.
RODKEY, G. V., assoc.v.s. (*W.S.* 1943); r.s. *Or.* 1945; a.r.s. 1950
Zero Emerson Pl.
Rodman, C. A., II, *S.* 1962; a.r.p. *An.* 1963 614 Aloha Rd.,
Salt Lake City, Utah
Roe, B. B., *W.S.* 1943; r.s. 1950
384 Post, San Francisco, Calif.
ROGENTINE, G. N., Jr., a.r.p. (*M.* 1963) M. G. H.
Rogers, D. M., *C.M.* 1938
2 Cherry, Wenham
ROGERS, H., *Bd. of Cons.* (*E.S.* 1925)
580 Osgood, N. Andover
Rogers, O. F., *W.M.* 1913; h.p. *E.M.* 1916
140 Ogden, New Haven, Conn.
ROGERS, WILLIAM A., hon.s. (*Or.* 1924) Peacham, Vt.
ROGERS, WILLIAMS P., Jr., a.s.; Cons. *Otolar.* Taylor Med. Bldg.,
Weston
Rolett, E. L., *M.* 1956; r.p. 1960
Sch. of Med.,
Univ. of North Carolina,
Chapel Hill, N. C.
Ronat, Judith G., r.p. *Psychiat.* (*McL.*) 1963 M. G. H.
ROOPENIAN, A., assoc. s. *Otolar.*
475 Commonwealth Ave.
ROOT, R. K., *M.* M. G. H.
Roots, L. H., *W.S.* 1933
475 Riverside Dr., New York, N. Y.
ROPES, MARIAN W., p.; a.r.p. 1934
M. G. H.
Rosales, Remedios K., r.p. *N.P.* 1952; a.r.p. *Path.* 1954
Samanillo Bldg., Manila, P. I.
Rose, A. S., *E.M.* 1934; r.p. *Psychiat.* (*McL.*) 1934 Univ. of California
Med. Center,
Los Angeles, Calif.
Rose, J. A., *M.* 1957; a.r.p. 1958
National Inst. of Health,
Bethesda, Md.
Rose, P. F., a.r.p. *C.M.* 1959
3403 Hall, Dallas, Tex.
Rosen, R. B., *C.M.* 1953; a.r.p. *C.M.* 1954
Children's Hosp. of Michigan,
Detroit, Mich.
Rosen, V. J., Jr., a.r.p. *Path.* 1959
St. John's Hosp.,
Santa Monica, Calif.
Rosenbaum, M., r.p. *Psychiat.* (*McL.*) 1937; r.p. *Psychiat.* 1939
Albert Einstein Coll. of Med.,
Bronx, N. Y.
Rosenberg, E. William, r.p. *D.* 1959
899 Madison Ave., Memphis, Tenn.
ROSENBERG, EARLE H., a. oral s. (*Dn.* 1958); r.s. *Dn.* 1960
29 Commonwealth Ave.
Rosenberg, I. H., *M.* 1960; a.r.p. 1961
National Inst. of Health,
Bethesda, Md.
ROSENBLITH, JUDY F., psychol.
M. G. H.
Rosenkrantz, J. G., *S.* 1954; a.r.s. 1961
Univ. of Colorada, Medical Ctr.,
Denver, Colo.
Rosenman, L. D., *E.S.* 1943; a.r.s. 1949
2320 Sutter, San Francisco, Calif.
Rosenthal, A. L., a.r.p. *D.* 1956
724 W. State, Trenton, N. J.
ROSENTHAL, M. K., a. *Pediat.;* a.r.p. *C.* 1962 1 Salem, Wakefield
ROSENTHAL, P., a. *Oph.*
416 Marlborough
ROSS, R. A., pediat.
51 Brattle, Cambridge
Rosser, C., *W.S.* 1918
1719 Pacific Ave., Dallas, Tex.
Roth, J. L. d'A., *M.* 1945
419 S. 19th, Philadelphia, Pa.
ROTH, S. I., a. *Path.* (*Path.* 1957); a.r.p. *Path.* 1958 M. G. H.
Rothberg, H. D., Jr., *M.* 1954; r.p. 1959 Princeton Med. Group,
Princeton, N. J.

Rothfeld, L. J., a.r.p. *An.* 1955
3301 Clayton Rd., Concord, Calif.

ROUNDS, C. E., clin. assoc. *Dn. M.* (*Dn.* 1947)
97 Columbian, S. Weymouth

ROURKE, J. A., a. *R.* M. G. H.

Rovit, R. L., r.s. *N.S.* 1958
Jefferson Med. College, Philadelphia, Pa.

ROWE, C. R., a.s. *Or.* (*Or.* 1939) M. G. H.

Rowe, J. C., *M.* 1952; r.p. 1957
2425 Geary Blvd., San Francisco, Calif.

Rowland, C. Van A., Jr., a.r.p. *Psychiat.* 1962 r.p. *Psychiat.* (*McL.*) 1963 295 Beacon

Rubinstein, J. H., *C.M.* 1954; a.r.p. *C.M.* 1955 Children's Hosp., Cincinnati, Ohio

RUBOY, J. S., a. *Pediat.;* a.r.p. *C.M.* 1960 Concord Med. Center, Concord

RUDY, H. A., a. *U.* 60 Brattle, Cambridge

Ruffin, M. deG., *Path.* 1939; r.p. *Path.* 1940
2015 R, N.W., Washington, D.C.

Rukes, J. M., *M.* 1950; a.r.p. 1952
3905 Sacramento, San Francisco, Calif.

Ruley, H. B., *N.S.* 1939 and *W.S.* 1941; a.r.s. 1942
Med. Arts Bldg., Oak Ridge, Tenn.

RUNGE, P. M., a. *Oph.*
140 Marlborough

RUNYON, R. C., a.r.s. *Or.* M. G. H.

Russell, H. N., Jr., *C.M.* 1939
15101 Southfield Rd., Allen Park, Mich.

RUSSELL, P. S., c. *S.* (*S.* 1949); r.s. 1956 M. G. H.

Russfield, Agnes Burt, *Path.* 1950; a.r.p. *Path.* 1951
25 Binney

Rutherford, Robert N., *W.S.* 1938
707 Broadway, Seattle, Wash.

Rutherford, Rondall W., *C.M.* 1933
21 Herrick Rd., Newton Centre

Rutledge, R. H., *S.* 1950; r.s. 1957
800 5th Ave., Fort Worth, Tex.

RUTMAN, J., *C.* M. G. H.

RUTSTEIN, D. D., cons. *Prev. M.* H. M. S.

Rutter, T., *E.S.* 1946; a.r.s. 1949
843 E. Main, Medford, Oreg.

Ryan, J. P., *Dn.* 1953 9 S. Main, Mechanicville, N. Y.

Ryan, Kenneth J., *M.* 1953; a.r.p. 1954
University Hosp., Cleveland, Ohio

*Ryan, Kevin G., *M.* 1960
U.S.A.F. Hosp., A.P.O. 323, San Francisco, Calif.

Sabin, H. S., r.s. *U.* 1941
4903 Rockwood Parkway, N.W., Washington, D. C.

SACHS, B. J., a. *Oph.*
636 Beacon

Sack, L. C., a.r.p. *R.* 1962
Menninger Foundation, Topeka, Kan.

SACK, T., a. attend. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1958
1731 Beacon, Brookline

Sahay, B. M., a.r.p. *Psychiat.* 1959
New End Hosp., London N. W. 3, England

Sahler, O. DeP., r.p. *R.* 1942
Mary Imogene Bassett Hosp., Cooperstown, N. Y.

Saidi, F., a.r.s. 1960
Saadi Hosp., Shiraz, Iran

St. Aubin, P. M. G., *M.* 1948; r.p. *R.* 1953 Univ. of Nebraska, Sch. of Med., Omaha, Nebr.

St. GOAR, W. T., a.p. (*M.* 1950); r.p. 1952 262 Beacon

Salamanca, J. J., *An.* 1943
Calle 25A, No. 13A-35, Bogotá, Colombia

SALIB, P. I., sr. r.s. *Or.* M. G. H.

SALZMAN, E. W., a. *S.* (*S.* 1954); r.s. 1961 M. G. H.

Samiy, H. E., r.p. 1961
Ebtehaj, Resht, Iran

Sampson, D. A., a.r.p. *R.* 1937
Suburban Sq. Bldg., Ardmore, Pa.

Sampson, J. J., *W.M.* 1923
2233 Post, San Francisco, Calif.

Sams, B. J., Jr., r.p. 1958
2425 Geary Blvd., San Francisco, Calif.

Sanborn, F., *N.S.* 1939
Barnstable County Hosp., Pocasset

SANCHEZ, G. C., a.p. (*M.* 1950); a.r.p. 1951 330 Dartmouth

SANDERS, C. A., a. *M.* M. G. H.

SANDERS, J. H., *M.* M. G. H.

Sanders, M. B., *E.S.* 1920
8 Marmion Way, Rockport

*Sanders, R. W.,
21st Evacuation Hosp., A.P.O. 178, New York, N. Y.

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Sandifer, M. G., Jr., *M.* 1948; a.r.p. 1949 Dorothea Dix Hosp., Raleigh, N. C.
SANDLER, A. I., a. *M.* (*M.* 1956); r.p. 1958 M. G. H.
Santoro, B. T., a.r.s. 1962 1 Dover Rd., Dover
Sargent, F. B., *W.S.* 1920 124 Waterman, Providence, R. I.
Sarnoff, S. J., a.r.s. 1947 National Inst. of Health, Bethesda, Md.
SARRIS, S. P., clin. assoc. *S.* (*W.S.* 1939); r.s. 1940 56 Broad, Lynn
Sasahara, A. A., a.r.p. 1957 Vet. Adm. Hosp., W. Roxbury
Saslow, G., r.p. *Psychiat.* 1943 Univ. of Oregon Med. Sch., Portland, Oreg.
*Satin, D. G., a.r.p. *Psychiat.* 1960; r.p. *Psychiat.* (McL.) 1961 Ellsworth Air Force Base, South Dakota
Saunders, George M., *E.S.* 1928 150 E. 42nd, New York, N. Y.
Saunders, Gordon A., *E.M.* 1937 94 Pleasant, Arlington
Sawyer, C. S., r.p. *D.* 1943 184 Waterman, Providence, R. I.
SCANNELL, J. G., v.s. (*E.S.* 1941); r.s. 1946 M. G. H.
SCATCHARD, G., cons. *Or.* M.I.T., Cambridge
SCEERY, R. T., assoc. pediat. (*C.M.* 1951); c.r.p. *C.M.* 1953 109 N. Main, Cohasset
Schaaf, R. S., *W.M.* 1943; r.p. 1948 Prudential Ins. Co. of America, Prudential Plaza, Newark, N. J.
SCHAPIRO, R. H., a.*M.* (*M.* 1959); r.p. 1962 Zero Emerson Pl.
SCHATZKI, R., cons. v.r. 1180 Beacon, Brookline
Schatzki, S. C., r.p. *R.* 1960 Mount Auburn Hosp., Cambridge
Schenk, W. G., Jr., *E.S.* 1946 164 Doncaster Rd., Kenmore, N. Y.
SCHEPENS, C. L., assoc. s. *Oph.* 99 W. Cedar
SCHEUPLEIN, R. a. biochem. *D.* M. G. H.
Schiebler, G. L., *C.M.* 1955; a.r.p. 1956 Univ. of Florida Coll. of Med., Gainesville, Fla.
Schimke, R. T., *M.* 1959; a.r.p. 1960 10011 Hurst, Bethesda, Md.
Schmidt, R. A., a.r.p. *An.* 1959 201 E. Bradley Rd., Milwaukee, Wis.
SCHMITT, F. O., *Trustee* M. I. T., Cambridge
Schnabel, T. G., Jr., a.r.p. 1947 Philadelphia Gen. Hosp., Philadelphia, Pa.
Schneider, B., r.p. *R.* 1947 19 Garfield Pl., Cincinnati, Ohio
Schneider, C. C., *E.S.* 1919 6370 N. Lake Dr., Milwaukee, Wis.
Schneiderman, R. N., r.p. *D.* 1958 712 N. Washington, Dallas, Tex.
SCHNITZER, R. D., assoc. psychol. (*McL.*) McLean Hosp., Belmont
Schoen, E. J., a.r.p. *C.M.* 1954 Kaiser Foundation Hosp., Oakland, Calif.
Scholl, A. J., *E.S.* 1917 1930 Wilshire Blvd., Los Angeles, Calif.
SCHOLL, MARY L., assoc. pediat. and a. *N.* M. G. H.
Schueler, H. K., r.s. *U.* 1957 839 W. Broadway, Madisonville, Ky.
SCHUKNECHT, H. F., c. *Otolar.* Mass. E. & E. Inf.
Schuler, J. D., *C.M.* 1939 Wytheville Sanitarium and Hosp., Wytheville, Va.
SCHULZ, M. D., r. M. G. H.
Schuntermann, P. P.-E., j.a.r.p. *C.* 1962 Duke Hosp., Durham, N. C.
Schupack, M. B., r.p. *Psychiat.* (*McL.*) 1963 Mount Zion Hosp., San Francisco, Calif.
Schuster, S. R., a.r.s. 1952 Children's Med. Center
SCHWAB, R. S., n.; r.p. *N.* 1935 M. G. H.
Schwartz, A. B., *C.M.* 1914 Milwaukee Children's Hosp., Milwaukee, Wis.
Schwyzer, Marguerite, a.r.p. 1946 8 Crocus Hill, St. Paul, Minn.
SCOTT, A. W., a.s. *Oph.* 7 Bay State Rd.
SCOTT, D. H., a.s. *Oph.* 7 Thorndike, Beverly
SCOTT, J. F., assoc. biophys. *M.* M. G. H.

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Scott, M. W., Jr., *W.S.* 1945
205 15th, N.W., Canton, Ohio
Scott, T., r.p. 1939
200 W. 2nd, Lexington, Ky.
SCULLY, R. E., path. M. G. H.
SEALE, E. S., s. *Oph.*
126 Bay State Rd.
Sears, J. B., *W.S.* 1929
416 Marlborough
Seed, J. C., *M.* 1946
Calvary Hosp., Bronx, N. Y.
Seeley, C. B., r.p. *R.* 1960
358 N .Maine, Andover
Seigle, S. P., *E.M.* 1942; a.r.p. 1946
85 Jefferson, Hartford, Conn.
SEIGNE, T. D., a. *An.* M. G. H.
Sell, S., *Path.* 1961; a.r.p. *Path.* 1962
National Inst. of Health,
Bethesda, Md.
Seltzer, R. A., a.r.p. *R.* 1962
Cincinnati Gen. Hosp.,
Cincinnati, Ohio
Selverstone, B., r.s. *N.S.* 1947
New Eng. Center Hosp.
SEMON, R. G.. assoc. psychol. (*McL.*)
McLean Hosp., Belmont
Semrad, E. V., r.p. *Psychiat.* (*McL.*)
1938 Mass. Mental Health Center
Senghas, R. E., sr.r.s. *Or.* 1961
40 Evergreen, Framingham
SENIOR, B., a. *Pediat.* (*C.M.* 1950);
Boston Floating Hosp.
SENS, R., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont
Shaffer, F. G., *S.* 1952; r.s. *U.* 1955;
a.r.s. 1956 1343 Locust Ave.,
Fairmont, W. Va.
Shaffer, H. A., a.r.p. *R.* 1932
Monongalia Gen. Hosp.,
Morgantown, W. Va.
SHANGRAW, K. A., dn.s.
96 Bay State Rd.
SHANNON, D. C., j.a.r.p. *C.*
M. G. H.
Shannon, E. W., r.s. *N.S.* 1944
930 Hanna Bldg., Cleveland, Ohio
Shannon, James G., *Or.* 1931
1414 Drummond Med. Bldg.,
Montreal, Canada
SHANNON, JAMES M., clin. assoc.
S. (*S.* 1948); a.r.s. 1954
79 Highland Ave., Salem
Shannon, P. W., *Or.* 1934
1927 1st Ave., North,
Birmingham, Ala.
Sharpe, J. D., sr.r.p. *Psychiat.* (*McL.*)
1951 Brattleboro Retreat,
Brattleboro, Vt.
SHARPE, W., Jr., a. *Psychiat.*
51 Brattle, Cambridge
SHATTUCK, G. C., cons. *T. Dis.*
(*E.M.* 1906) H. M. S.
Shaw, E. B., r.p. *C.M.* 1924
Univ. of California Sch. of Med.,
San Francisco, Calif.
Shaw, J. L., r.s. *P.H.* 1935 and *U.*
1937 899 Madison Ave.,
Memphis, Tenn.
SHAW, R. S., assoc. v.s. and a. dir. of
Blood Bank and Transfusion Service
(*W.S.* 1946); r.s. 1952 M. G. H.
Shea, C. J., *E.S.* 1943
1101 Beacon, Brookline
SHEA, MARJORIE L., cons. for Community Relations M. G. H.
SHEAGREN, J. N., a.r.p. (*M.* 1963)
M. G. H.
Shedden, W. M., *E.S.* 1920; h.s. *U.*
1921 and *W.S.* 1922
159 S. Halifax Ave., Daytona, Fla.
SHEIN, H. M., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont
SHELDON, C. P., clin. assoc. *Obst.*
(*E.S.* 1931) 319 Longwood Ave.
Sheldon, D. B., *S.* 1951; a.r.s. 1955
10911 Weyburn Ave.,
Los Angeles, Calif.
SHELTON, W. R., a. *Psychiat.*
575 Mount Auburn, Cambridge
SHERMAN, GRACE H., exec. a.
B.M. (*S.N.* 1934) M. G. H.
SHERMAN, L. J., assoc. psychol.
(*McL.*) McLean Hosp., Belmont
Shine, K. I., *M.* 1962; a.r.p. 1963
1043 Terrace Blvd., Trenton, N. J.
Ship, I. I., *Dn.* 1957
Philadelphia General Hosp.,
Philadelphia, Pa.
Shipley, Margaret S., *E.M.* 1943
1109 Sunset Blvd., N. Canton, Ohio
Shipman, T. L., r.s. *P.H.* 1936
Box 1663, Los Alamos, N. M.
Shirley, J. N., *W.S.* 1918
Chestnut, S. Duxbury
SHORE, S., a. *Otolar.*
454 Brookline Ave.
Shorey, W. D., *E.S.* 1946; a.r.s. 1950
122 S. Michigan Ave.,
Chicago, Ill.
SHORT, C. L., cons.v.p. (*W.M.*
1930); c.r.p. 1933 264 Beacon
Shugar, J. L., a.r.s. *Or.* 1950
Jewish General Hosp.,
Montreal, Canada

SHULMAN, L. B., a.dn.s. (*Dn. M.* 1961; a.r.s. *Dn. M.* 1962
976 Main, Waltham
Shurtleff, D. B., *C.M.* 1956; a.r.p. *C.M.* 1957
Univ. of Washington Med. Sch., Seattle, Wash.
Shuter, E. R., a.r.p. *N.* 1962
Valley Forge General Hosp., Phoenixville, Pa.
SIDMAN, M., psychol. *N.* M. G. H.
SIDMAN, R. L., a. n.; a.r.p. *N.* 1956 H. M. S.
SIFNEOS, P. E., psychiat.; r.p. *Psychiat.* (*McL.*) 1950; r.p. *Psychiat.* 1952 M. G. H.
Silverman, A. C., *C.M.* 1917
608 E. Genesee, Syracuse, N. Y.
SILVERMAN, S., dir. *Clin. Psychiat.* (*McL.*) McLean Hosp., Belmont
SIMEONE, F. A., *Bd. of Cons.* (*W.S.* 1936); r.s. 1940
Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
SIMMONS, R. J., a. *Oph.*
5 Bay State Rd.
Simon, H., r.p. *R.* 1961
New Eng. Med. Center
Simon, R. L., *Or.* 1932
2764A N. E. 15th, Fort Lauderdale, Fla.
Sinclair, E. B., r.p. *C.M.* 1940
176 Evergreen, Providence, R. I.
SINESI, S. J., clin. assoc. *D.* M. G. H.
Singh, M. M., *M.* 1952; r.p. 1956
Institute of Medical Science, New Delhi, India
Singleton, J. W., *M.* 1958; r.p. 1962
Univ. of Colorado Med. Center, Denver, Colo.
Siperstein, M. D., a.r.p. 1955
Southwestern Medical School of the Univ of Texas, Dallas, Tex.
SISCOE, D. L., hon. p. (*E.M.* 1921)
1101 Beacon, Brookline
SISSON, J. H., a. *M.*
203 Commonwealth Ave.
SISSON, W. R., hon. p. (*C.M.* 1912)
203 Commonwealth Ave.
Skinner, A. L., *C.M.* 1953
3003 81st, S.E., Mercer Island, Wash.
SKINNER, D. B., a.r.s. (*S.* 1960) M. G. H.
Skinner, J. C., r.p. *Psychiat.* 1948
Boston Univ.-Mass. Memorial Hosp. Med. Center
SLATER, E. M., a. an.; a.r.p. *An.* 1960 M. G. H.
Sledge, C. B., sr. r.s. *Or.* 1962
Strangeways Research Lab., Wort's Causeway, Cambridge, England
SLEEPER, E. L., clin. assoc. *Dn. M.*
5 Emerson Pl.
SLEEPER, RUTH, dir. *S.N. and Nurs. Serv.* (*S.N.* 1922) M. G. H.
SLEMONS, MARION L., clin. assoc. *C.* 400 Commercial, East Braintree
SLOANE, A. E., s. *Oph.*
416 Marlborough
Sloane, R. B., r.p. *Psychiat.* 1953
Dept. of Psychiat., Queen's Univ., Kingston, Ontario, Canada
SLOWICK, MARY A., exec. a. *B.M.* (*R.N.*) M. G. H.
SMEDLEY, LOIS M., a. *Pediat.*
254 French, Fall River
Smillie, J. W., *E.S.* 1944; j.r.s. 1945
326 N. Ingalls, Ann Arbor, Mich.
SMITH, CLEMENT A., cons. *C.*
221 Longwood Ave.
Smith, Curtis E., *W.M.* 1919 and *E.S.* 1921
490 Post, San Francisco, Calif.
Smith, E. T., *Or.* 1937
6410 Fannin, Houston, Tex.
Smith, H. W., *Dn.* 1946
100 York, New Haven, Conn.
SMITH, J. A., *Bd. of Cons.*
1180 Beacon, Brookline
SMITH, L. H., Jr., assoc. p. (*M.* 1949); c.r.p. 1956 M. G. H.
Smith, M. L., a.r.p. *An.* 1951
Mid-State Med. Center, Nashville, Tenn.
Smith, N. T., a.r.p. *An.* 1960
711 Maplewood Ave., Palo Alto, Calif.
Smith, Raphael F., *M.* 1961; a.r.p. 1962
U.S. Naval Sch. of Aviation Med., Pensacola, Fla.
Smith, Richard H., a.r.p. *Psychiat.* 1958
Metropolitan State Hosp., Waltham
Smith, Richard M., *W.M.* 1909
401 Beacon
Smith, Robert P., *M.* 1943
Vermont Rehabilitation Center, Burlington, Vt.
SMITH, T. R., a.s. *Opth.*
Mass. E. & E. Inf.

Smith, W. Pierce, r.p. 1956
Henry Ford Hosp., Detroit, Mich.

SMITH, WILLIAM D., hon. p. (*W.M.* 1913) 1731 Beacon, Brookline

SMITH-PETERSEN, M., a.s. *Or.*; sr. r.s. *Or.* 1952 266 Beacon

SMITHWICK, R. H., *Bd. of Cons.* (*E.S.* 1927); r.s. *W.S.* 1928
203 Commonwealth Ave.

Sneddon, E. A., r.p. *An.* 1954
Boston Univ.-Mass. Memorial Hosp. Med. Center

SNIDER, M., assoc. psychol. *C.*
M. G. H.

SNIFFEN, R. C., assoc. v. path.; r.p. *Path.* 1940
Memorial Hosp., 119 Belmont, Worcester; M. G. H.

SNODGRASS, S. R., *M.*, M. G. H.

SNOW, J. C., dir. *An.* (*E.* & *E.*)
Mass. E. & E. Inf.

Snyder, J. C., *W.M.* 1939
Harvard Sch. of Public Health

Snyder, Monica H., r.p. *An.* 1935
10883 Whipple, N. Hollywood, Calif.

Snyder, W. H., Jr., *W.S.* 1933; r.s. 1935 1400 N. Vermont Ave., Los Angeles, Calif.

Sober, S., a.r.s. *Or.* 1953
452 Victoria, London, Ontario, Canada

SOHIER, W. D., Jr., a.p. (*M.* 1947); r.p. 1951 M. G. H.

Soholt, S. T., sr.r.s. *Or.* 1951
139 Arch, Redwood City, Calif.

SOLOMON, H. C., hon. p.; cons. psychiat. (*McL.*)
Commonwealth of Mass. Mental Health Dept., 15 Ashburton Pl.

Solomon, J., r.p. *N.* 1944
10921 Wilshire Blvd., Los Angeles, Calif.

SOLOMON, L. F., a.soc. sc. (*McL.*)
McLean Hosp., Belmont

SOLOWAY, A. H., assoc. chem. *N.S.*
M. G. H.

Sosa, D., r.s. *N.S.* 1959
11 Calle 2-37, Zone 1, Guatemala City, Guatemala

Sosman, J. L., a.r.p. *R.* 1952
Robert Breck Brigham Hosp.

Soule, A. B., a.r.p. *R.* 1932
Mary Fletcher Hosp., Burlington, Vt.

SOUTTER, L., *Bd. of Cons.*; a.r.s. 1941 577 Bridge, Dedham

SOWLES, H. K., hon. s. (*W.S.* 1917); h.s. *W.S.* 1918
413 Blackstrap Rd., Falmouth, Maine

Soyka, L. F., *C.* 1962; a.r.p. *C.* 1963
M. G. H.

Spalding, R., *E.M.* 1902
Longwood Towers, Brookline

SPANGLER, A. S., a. *D.*; r.p. *D.* 1945 1101 Beacon, Brookline

Spangler, P. E., *W.S.* 1925
3107 Flora, San Luis Obispo, Calif.

Spann, J. R., Jr., *M.* 1962; a.r.p. 1963
National Inst. of Health, Bethesda, Md.

SPARLING, P. F.. a.r.p. (*M.* 1963)
M. G. H.

Spear, L. M., *E.M.* 1906
483 Beacon

SPEARE, G. S., *Bd. of Cons.* (*W.S.* 1927) 353 Commonwealth Ave.

SPELLMAN, J. W., *Bd. of Cons.* (*Thd. S.* 1924 and *W.S.* 1926)
Deaconess Med. Office Bldg., 110 Francis

Spence, H. M., *W.S.* 1932; r.s. *U.* 1934 4105 Live Oak, Dallas, Tex.

Spencer, J. Robert, *E.M.* 1943
1829 High, Denver, Colo.

Spencer, Jack, r.p. *R.* 1934
Union Hosp., Fall River

SPENCER, KATHERINE, res. assoc. *Soc. Anthropol.* (*McL.*)
Boston Univ. Sch. of Social Work

Spencer, R. E., a.r.p. *An.* 1951
Moses H. Cone Memorial Hosp., Greensboro, N. C.

Sphire, R. D., a.r.p. *An.* 1955
Grace Hosp., Detroit, Mich.

SPILLANE, J. B., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

SPIRO, MARY J., a. biochem. *M.*
M. G. H.

Splithoff, C. A., *Or.* 1942
485 34th, Oakland, Calif.

Sporer, Edita Sternova, *An.* 1942
459 Park Ave., Paterson, N. J.

SPRAGUE, H. B., *Bd. of Cons.* (*E.M.* 1924) 3 Concord Ave., Cambridge

Squire, Lucy F., a.r.p. *R.* 1944
1 Gracie Ter., New York, N. Y.

SQUIRES, H. J., a. podiatrist *Or.*
145 Tremont

Stall, B. G., III, *M.* 1947; r.p. 1949
Univ. of Tennessee Memorial Res.
Center and Hosp., Knoxville, Tenn.
STALVEY, H. D., a. attend. psychiat. (*McL.*) 1419 Beacon, Brookline
STANBURY, J. B., p. (*W.M.* 1941); c.r.p. 1948 M. G. H.
STANTON, A. H., c. psychiat. (*McL.*); psychiat. McLean Hosp., Belmont
STANTON, JOSEPHINE A., a.r.p. *An.* M. G. H.
Staples, O. S., Jr., *Or.* 1938
Hitchcock Clinic, Hanover, N. H.
Starke, R. D., *M.* 1959; a.r.p. 1960
490 Post, San Francisco, Calif.
Starobin, O. E., *M.* 1955; a.r.p. 1956
27 Elm, Worcester
Starr, I., *W.M.* 1922
Sch. of Med., Univ. of Pennsylvania, Philadelphia, Pa.
Stason, W. B., *M.* 1961; a.r.p. 1962
Presbyterian Hosp., New York, N. Y.
States, J. D., a.r.s. *Or.* 1955
15 Prince, Rochester, N. Y.
STAUFFER, RUTH E., a. *N.*; r.p. *N.* 1949 M. G. H.
Stearns, T., *E.S.* 1913 and *Or.* 1914
736 Haxtun Ave., Orange, N. J.
STEBBINS, H. D., clin. assoc. *M.* (*E.M.* 1933.) 79 Highland Ave., Salem
STECKEL, R. J., a.r.p. *R.* M. G. H.
Steel, D., r.p. *R.* 1925 E. Falmouth
Steele, B. W., Jr., a.r.s. 1952
Utica Sq. Med. Center, Tulsa, Okla.
STEELE, J. L., a.r.p. *Path.* M. G. H.
STEELE, R. E., *S.* M. G. H.
Steenburg, D. B., *E.S.* 1915
1018 12th, Aurora, Nebr.
Steenburg, E. K., *E.S.* 1919
4200 Cathedral Ave., N.W., Washington, D. C.
STEMPIEN, J. H., dn.s. (*Dn.* 1960); r.s. *Dn. M.* 1961
328 Washington, Wellesley Hills; 29 Commonwealth Ave.
Stenger, R. J., a.r.p. *Path.* 1958
Cincinnati Gen. Hosp., Cincinnati, Ohio
Stephens, W. A., *Or.* 1943
3720 Washington, St. Louis, Mo.
STEPHENSON, MARY L., a. biochem. *M.* M. G. H.
Stern, N. S., *E.M.* 1917
899 Madison Ave., Memphis, Tenn.
STERNSTEIN, H. J., assoc. s. *Otolar.*
54 Winter, Norwood
Stetson, J. B., a.r.p. *An.* 1953
Children's Med. Center
Stetson, R. P., *W.M.* 1928
Vet. Adm. Area Med. Office, 330 Stuart
Stevens, Harold W., *C.M.* 1914 and *E.M.* 1916
369 Ferry Rd., Saco, Maine
STEVENS, H. F., a. *R.* M. G. H.
Stewart, James M., *M.* 1946
344 West Ave., Rochester, N. Y.
Stewart, John D., *E.S.* 1930; r.s. *W.S.* 1933
Edward J. Meyer Memorial Hosp., Buffalo, N. Y.
Stewart, John E., a.r.s. *Or.* 1947
1120 Cherry, Seattle, Wash.
Stewart, S. F., *Or.* 1921
1133 Punchbowl, Honolulu, Hawaii
Stewart, William C., *W.M.* 1934
1205 Quarrier, Charleston, W. Va.
STEWART, WILLIAM G., Jr., a.r.s. *Or.* (*S.* 1960); a.r.s. 1961 M. G. H.
Stiefel, D. M., *Or.* 1923
1553 Woodward Ave., Detroit, Mich.
Stiff, D. W. S., r.p. *R.* 1950
430 Monterey Ave., Los Gatos, Calif.
Stiles, Claire M., a.r.p. *An.* 1962
7230 Rio Flora Pl., Downey, Calif.
Stiles, Q. R., *S.* 1956; a.r.s. 1962
3611 Century Blvd., Lynwood, Calif.
Stinchfield, A. J., a.r.s. *Or.* 1949
16 E. Chestnut, Augusta, Maine
STIVER, IRENE PIERCE, c. psychol. (*McL.*) McLean Hosp., Belmont
STOCKS, J. F., clin. assoc. *C.*; a.r.p. *C.* 1961 67 Silver, Waterville, Maine
Stoddard, J. K., *E.M.* 1917
R.D. 4, Easton, Md.
STODDARD, L. T., assoc. psychol. *N.* M. G. H.
STOECKLE, J. D., assoc. p. (*M.* 1949); r.p. 1951 M. G. H.
STOFFYN, ANNE M., a. biochem. (*McL.*) McLean Hosp., Belmont
STOFFYN, P. J. J., assoc. biochem. (*McL.*) McLean Hosp., Belmont
Stokes, J., Jr., *W.M.* 1921
Children's Hosp., Philadelphia, Pa.
Stokes, J., III, r.p. 1954
University of California Sch. of Med., La Jolla, Calif.

Stolman, J. M., *Dn.* 1956
18 Asylum, Hartford, Conn.

STONE, A. A., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1958
McLean Hosp., Belmont

STONE, BARTLETT H., clin. assoc. *Obst.* Deconess Med. Office Bldg., 110 Francis

Stone, Bernard B., r.s. *N.S.* 1955
65 Elm, Worcester

STONE, L. A., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

STONE, W., Jr., a.s. *Oph.*
478 Commonwealth Ave.

Stout, H. A., *Path.* 1938; r.p. *Path.* 1939
1200 N. Walker, Oklahoma City, Okla.

Stout, K. L., r.p. *D.* 1935
4418 Vineland Ave., N. Hollywood, Calif.

Stovner, J., a.r.p. *An.* 1953
Fethlitzgt 1, Oslo, Norway

Straehley, C. J., Jr., *W.S.* 1947; a.r.s. 1953 Kaiser Permante Med. Group,
1697 Ala Mona Blvd., Honolulu, Hawaii

STRASBURGER, L. H., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

STRATTON, KATHLEEN, a. physicist *M.* M. G. H.

Strauss, A. E., *E.M.* 1916
6833 Waterman Ave., St. Louis, Mo.

STRAUSS, F., II, a. dir. M. G. H.

Strauss, J. S., r.p. *Psychiat.* (*McL.*) 1963 Beth Israel Hosp.

Strayer, L. M., Jr., *Or.* 1939
144 Golden Hill, Bridgeport, Conn.

STRICKLER, W. L., a. *U.*; r.s. *U.* 1963 M. G. H.

Strole, W. E., Jr., *M.* 1959; r.p. 1963 M. G. H.

Strom, J. O., r.p. *N.P.* 1955
150 Lloyd Ave., Providence, R. I.

Stunkard, A. J., *M.* 1946
Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.

Sturdevant, C. L., *Or.* 1939
234 Marlborough

STURGIS, G. P., a.p.
1101 Beacon, Brookline

Sturgis, S. H., *E.S.* 1933
Peter Bent Brigham Hosp.

SUBY, H. I., v.u.; r.s. *P.H.* 1937 and *U.* 1939 262 Beacon

Sugiyama, T., j.r.s. 1944; r.s. *U.* 1946
Metz Bldg., Grand Rapids, Mich.

Sullivan, E. R., *E.M.* 1936 and *Path.* 1937; r.p. 1941
139 Adams, Milton

SULLIVAN, G. L., s. *Oph.* M. G. H.

Summerall, C. P., III, *M.* 1956; a.r.p. 1957 Medical College Hospital, 55 Doughty, Charleston, S. C.

Surls, J. K., *Or.* 1920 and *E.S.* 1922
Box 44, Gracie Sq. Station, New York, N. Y.

Sussman, M. L., r.p. *R.* 1930
1130 E. McDowell Rd., Phoenix, Ariz.

Sutherland, D. W., *M.* 1958; r.p. 1960
2455 N.W. Marshall, Portland, Oreg.

Sutherland, G. F., r.p. *Psychiat.* (*McL.*) 1941
Dept. of Mental Hygiene, 3700 N. Charles, Baltimore, Md.

Sutphin, A. K., *W.M.* 1943; a.r.p. 1946 1805 Monument Ave., Richmond, Va.

Suyama, E., *S.* 1951; a.r.s. 1955
Maine Coast Memorial Hosp., Ellsworth, Maine

Swan, Channing S., *W.S.* 1925
2 Willow Rd., Weston

Swan, Charles L., Jr., *W.S.* 1929
262 Beacon

SWARTZ, J. H., *Bd. of Cons.*
483 Beacon

SWARTZ, MORRIS, a. *Otolar.*
18 Broad, Lynn

SWARTZ, MORTON N., assoc.p. (*M.* 1948); c.r.p. 1953 M. G. H.

SWEAT, R. E., a.r.s. M. G. H.

Sweeny, D. N., Jr., *W.S.* 1941; r.s. 1943 Riverside Clinic, Detroit, Mich.

Sweet, E. B., a.r.s. *Or.* 1954
85 Jefferson, Hartford, Conn.

Sweet, P. L., *Dn.* 1949; a.r.s. *Dn.* 1950
Fairfield Trust Bldg., Danbury, Conn.

Sweet, R. B., a.r.p. *An.* 1950
University Hosp., Ann Arbor, Mich.

SWEET, W. H., c. *N.S.* (*N.S.* 1936); r.s. *N.S.* 1941 M. G. H.

Sweetnam, G. H., *Dn.* 1937
743 High, Dedham

Swineford, O., Jr., *W.M.* 1927
Univ. of Virginia Hosp., Charlottesville, Va.

Sycamore, L. K., a.r.p. *R.* 1929
Hitchcock Clinic, Hanover, N. H.

SZABO, G., assoc. biol. *D.* M. G. H.

Tabor, Celia White, *M.* 1945
3130 Wisconsin Ave., N. W., Washington, D. C.

TAFT, E. B., path. M. G. H.

TAFT, PRISCILLA D., a. path. M. G. H.

Talalay, P., *S.* 1949; a.r.s. 1950
Dept. of Med., Univ. of Chicago, Chicago, Ill.

Talamo, R. C., *C.* 1962
Pediat. Metab. Group, National Inst. of Health, Bethesda, Md.

Talbert, O. R., r.p. *N.* 1953
Med. Coll. of South Carolina, Charleston, S. C.

TALBOT, F. B., hon. p. (*E.M.* 1907)
24 Cottage Farm Rd., Brookline

TALBOT, N. B., c. *C.* M. G. H.

Talin, J. J., *Or.* 1943
275 Hoosick, Troy, N. Y.

TALLAND, G. A., psychol. M. G. H.

Tallon, J. B., a.r.p. *R.* 1953; sr.r.s. *Or.* 1959 57 Roy, Kitchener, Ontario, Canada

Talmadge, S. McN., *W.S.* 1938; r.s. *P.H.* 1939
1010 Prince Ave., Athens, Ga.

Tan, Chung-Chang, *Or.* 1943
1951 N. Fresno, Fresno, Calif.

Tandon, R., r.p. 1960
c/o R. N. Tandon
Kanpur, U. P., India

Tanner, James W., r.p. *R.* 1962
2106 Hayes, Wichita Falls, Tex.

Tanner, Joseph B., sr.r.s. *Or.* 1954
300 Homer Ave., Palo Alto, Calif.

Tannheimer, J. F., r.p. *Path.* 1945; a.r.p. 1948 525 Lafayette, Ionia, Mich.

Tatlock, H., *W.M.* 1940
264 Elm, Northampton

TAYLOR, G. W., *Bd. of Cons.* (*W.S.* 1924); r.s. *E.S.* and *W.S.* 1925
Taylor Med. Bldg., Weston

Taylor, I. M., *M.* 1946; c.r.p. 1951
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

TAYLOR, JOHN B., a.dn.s. (*Dn.* 1957) 737 High, Westwood

Taylor, John H., *E.M.* 1917
37 Marlborough

Teel, C. E., *W.S.* 1925
504 Briar Rd., Bellingham, Wash.

TEFFT, R. C., Jr., *Bd. of Cons.*
Box 72, Cleverdale, N. Y.

TEMBY, W. D., a. attend. psychiat. (*McL.*) 51 Brattle, Cambridge; 328 Washington, Wellesley

TENNEY, B., Jr., *Bd. of Cons.* (*W.S.* 1927) Boston City Hosp.

Tenney, Vivian A., a.r.s. *Gyn.* 1943
108 E. 86th, New York, N. Y.

Tetirick, J. E., *S.* 1952; a.r.s. 1956
131 S. Grant Ave., Columbus, Ohio

Thacher, H. C., *C.M.* 1942
117 Goff, Auburn, Maine

Thatcher, B. van H., *E.S.* 1945; a.r.s. 1950 1020 S.W. Taylor, Portland, Oreg.

Thaxter, L. T., *E.M.* 1916; a.r.p. *R.* 1928 Cumberland Foreside, Portland, Maine

THEOPOLD, P. H., *Trustee*
294 Washington

Theus, W. W., *Dn.* 1952
1513 Gregg, Columbia, S. C.

THIER, S. O., a.r.p. (*M.* 1961) M. G. H.

THOMA, K. H., hon. s.
1146 Beacon, Brookline

Thomas, Anne G. T., a.r.p. *Path.* 1956
73 Station Rd., Llanishen, Cardiff, Wales

THOMAS, A. D., a.r.p. *An.* M. G. H.

Thomas, H. M., Jr., *W.M.* 1917
314 Overhill, Baltimore, Md.

Thomas, John B., *M.* 1953; a.r.p. 1954
85 Jefferson, Hartford, Conn.

Thomas, R. L., *N.S.* 1933 and *E.S.* 1936 Morrison Hosp., Whitefield, N. H.

Thomas, W. A., a.r.p. *Path.* 1951
Albany Med. Coll., Albany, N. Y.

Thompson, E. B., III, a.r.s. *Or.* 1963
Children's Med. Center

Thompson, J. E., *E.S.* 1943; r.s. *N.S.* 1945; a.r.s. 1948
1008 N. Washington Ave., Dallas, Tex.

Thompson, M. S., *Or.* 1934; r.s. *Or.* 1935 Nix Professional Bldg., San Antonio, Tex.

Thompson, P. P., Jr., *W.M.* 1942; a.r.p. 1946 131 Chadwick, Portland, Maine

THOMPSON, R. H., clin. assoc. *S.* (*E.S.* 1937); r.s. 1940
79 Highland Ave., Salem

Thompson, S. B., a.r.s. *Or.* 1947
5520 W. Markham, Little Rock, Ark.

Thompson, W. Taliaferro, Jr., a.r.p. 1941 Med. Coll. of Virginia, Richmond, Va.

Thompson, Walter A., r.p. *Psychiat.* (*McL.*) 1931 Pinewood, Katonah, N. Y.

Thomson, C. P., r.p. *Psychiat.* (*McL.*) 1962 Harvard Sch. of Public Health

THORNDIKE, A., *Bd. of Cons.* (*W.S.* 1923) 509 Hammond, Chestnut Hill

Thornton, C. E., a.r.p. *Psychiat.* 1958 2 Sylvan, Danvers

Thorp, E. G., *E.M.* 1931 Malden Hosp., Malden

Thurlbeck, W. M., a.r.p. *Path.* 1958 McGill Univ., Montreal, Canada

TIBBETTS, MARGARET C., dir. *S.N. and Nurs. Serv.* (*McL.*) McLean Hosp., Belmont

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TIMBERLAKE, W. H., assoc. n.; r.p. *N.* 1949 Lemuel Shattuck Hosp., Jamaica Plain; M. G. H.

Timm, A. B., Jr., r.p. *D.* 1956 36 W. Main, Milford, Conn.

TINGEY, W. H., Jr., a.dn.s.; a.dn.s. (*McL.*) (*Dn.* 1959) 31 Church, Winchester

Tisdale, W. A., *M.* 1952; r.p. 1956 Dartmouth Med. Sch., Hanover, N. H.

Tobin, W. J., *Or.* 1939 1835 Eye, N.W., Washington, D.C.

TOCH, R., assoc. pediat. 98 Adams, Milton

Todd, B. P., *W.M.* 1938 1 Monument Sq., Beverly

TODD, D. P., an.; r.p. *An.* 1947 M. G. H.

Toll, G. D., *S.* 1952; a.r.s. 1957; a.r.p. *Path.* 1959 Presbyterian Hosp., Denver, Colo.

TOLL, KAREL van S., a. n. 197 Coolidge Hill Rd., Cambridge

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TOLMAN, M. M., d. Zero Emerson Pl.

TOMCHIK, F. S., a.r.; r.p. *R.* 1955 M. G. H.

Tompkins, D. G., sr.r.s. *Or.* 1958 Gundersen Clinic, La Crosse, Wis.

Tompkins, J. B., r.p. *Psychiat.* (*McL.*) 1937 75 Linden, Brattleboro, Vt.

Toriello, J., r.p. *R.* 1955 4a Calle 6-35, Zone 1, Guatemala City, Guatemala

Tow, P. M., a.r.p. *Psychiat.* 1954 111 Balaam, London E. 13, England

Towery, B. T., r.p. 1946 323 E. Chestnut, Louisville, Ky.

TOWNSEND, J. H., *Bd. of Cons.* (*W.M.* 1923) M.I.T., Cambridge

TRACHTENBERG, H. A., a. *An.*; a.r.p. *An.* 1963 M. G. H.

Tracy, R. J., *E.S.* 1943; a.r.s. 1949 197 South, Pittsfield

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Trapp, C. E., r.p. *Psychiat.* (*McL.*) 1937 1457 Center, Newton Centre

Traver, C. A., *W.S.* 1927 28 Willett, Albany, N. Y.

Traver, R. F., *E.S.* 1930 Vet. Adm. Hosp., Bath, N. Y.

Trethowan, W. H., a.r.p. *Psychiat.* 1951 Univ. of Sydney, Sydney, New South Wales, Australia

Trevett, L. D., a.r.p. 1933; r.p. *N.* 1934 412 Beacon

TRIEGER, N., a. oral s. (*Dn.* 1955); a.r.s. *Dn.* 1956 29 Commonwealth Ave.

Tripp, C. C., *W.S.* 1923 97 Madison, New Bedford

Troppoli, D. V., *N.* 1927 380 Broadway, Providence, R. I.

Trowbridge, E. H., Jr., a.r.p. *N.* 1940 Plaza Time Bldg., Kansas City, Mo.

Troxler, E. R., *Or.* 1942 1005 Professional Village, Greensboro, N. C.

Truman, J. T., *C.* 1961; c.r.p. *C.* 1963 M. G. H.

TRUMP, J. G., cons. *Physics* M. I. T., Cambridge

Tucker, J. T., *Or.* 1930 116 E. Franklin, Richmond, Va.

Tucker, R. P., *W.S.* 1939; a.r.s. 1940 1603 Ware Ave., East Point, Ga.

Tucker, W. I., r.p. *Psychiat.* 1944 Lahey Clinic

TUDOR, F., clin. assoc. *M.* 51 Randolph Ave., Milton

Turner, J. D., *M.* 1957; a.r.p. 1958 National Inst. of Health, Bethesda, Md.

TURNER, R. H., a.r.s. *Or.* M. G. H.

Tuttle, E. P., Jr., *M.* 1952; a.r.p. 1953
Emory Univ. Med. Sch.,
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Twombly, G. H., *W.S.* 1932
842 Park Ave., New York, N. Y.

Tyson, R. G., a.r.p. *C.M.* 1950
733 Washington Rd., Pittsburgh, Pa.

ULFELDER, H., c. *Gyn.* (*E.S.* 1939); r.s. *E.S.* 1941 M. G. H.

Ulick, S. C., *C.M.* 1952
Vet. Adm. Hosp.,
130 W. Kingsbridge Rd.,
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Ulmer, J. L., r.s. *N.S.* 1942
McGuire Vet. Adm. Hosp.,
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Urist, M. R., sr. r.s. *Or.* 1947
1019 Grayley Ave., Westwood
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Urmy, T. V., *E.M.,* 1928; r.p. *E.M.* 1930 Williams College,
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Urquhart, J., III, *S.* 1960; a.r.s. 1961
Univ. of Pittsburgh, Sch. of Med.,
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Urschel, H. C., Jr., *S.* 1956; r.s. 1962
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Vagelos, P. R., *M.* 1955; a.r.p. 1956
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Van Buskirk, D., *M.* 1958; a.r.p. 1959
Mass. Mental Health Center

Vance, L. A., *Path.* 1937; r.p. *R.* 1939
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VANDERPOL, M., a. psychiat. (*McL.*)
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Vanderveen, J. L., c.r.p. *An.* 1955
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VAN DYKE, WILHELMINA, a. pediat. (*C.M.* 1942); r.p. *C.M.* 1943
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Van Eerde, A., a.r.p. *An.* 1955
Paterson Gen. Hosp., Paterson, N. J.

VAN GORDER, G. W., hon. s.
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2425 Geary, San Francisco, Calif.

Varney, H. I., r.p. *Psychiat.* (*McL.*) 1938 5904 Connecticut Ave.,
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Vaughan, R. H., *E.S.* 1944
Physicians Bldg., Columbus, Ga.

Vaughan, V. C., III, *C.M.* 1943
Med. Coll. of Georgia, Augusta, Ga.

Veazey, P. M., *C.M.* 1956; a.r.p. *C.M.* 1957
The Santa Barbara Medical Clinic,
1421 State, Santa Barbara, Calif.

Veldee, M. V., *E.M.* 1920
1855 Bay Laurel Dr.,
Menlo Park, Calif.

VERMILLION, C. D., *S.* M. G. H.

Vesell, E. S., *C.M.* 1960
National Inst. of Health,
Bethesda, Md.

Vial, A. B., *E.S.* 1943
University Hosp., Ann Arbor, Mich.

VICKERY, A. L., Jr., path. M. G. H.

VIETS, H. R., hon. p.
Longwood Towers, Brookline

VILLEE, DOROTHY B., a. pediat. (*C.M.* 1956) M. G. H.

Vitt, R. J., a.r.s. *Or.* 1951
793 N. Cherry Ave., Tulare, Calif.

Voke, E. L., j.r.p. *R.* 1931
Ohio Bldg., Akron, Ohio

Volwiler, W., *M.* 1944; r.p. 1945
Univ. of Washington Sch. of Med.,
Seattle, Wash.

von FELSINGER, J. M., psychol.
M. G. H.

von KESSLER, K. L. C., a.r.s. *Or.*
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von Meysenbug, L., *C.M.* 1917 and *W.M.* 1918 123 New Haven Ave.,
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Waddell, W. R., *W.S.* 1944; r.s. 1951
Univ. of Colorado Sch. of Med.,
Denver, Colo.

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WADSWORTH, G. P., cons. *Math. Physics Res. Lab.* M.I.T., Cambridge

Waldman, J., a.r.s. *Or.* 1949
1616 Grand Ave., Waukegan, Ill.

Waldmann, Katharine Spreng, *M.* 1955; r.p. 1957
3910 Rickover Rd.,
Silver Spring, Md.

Waldmann, T. A., *M.* 1956
National Inst. of Health, Bethesda, Md.

Waldron, A. M., *E.M.* 1938; a.r.p. 1939
309 N. Ingalls, Ann Arbor, Mich.

*Waldron R. L., II, *S.* 1963
Peace Corps, Box 2016 Balboa, Canal Zone

Walke, J. T., a.r.p. *C.M.* 1948
303 Washington Ave., S.W., Roanoke, Va.

Walker, E., past a. dir. Pembroke, Bermuda

Walker, G. M. a.r.s. 1951
52 Hartwell, Fitchburg

Walker, J. K., *Dn.* 1954
42 W. Brook, Manchester, N. H.

Walker, R. H., a.r.p. *Path.* 1951; a.r.s. 1953 Med. Center Bldg., Calgary, Alberta, Canada

Wallace, E. P., a.r.p. *C.M.* 1948
71 Parker Ave., Meriden, Conn.

Wallwork, D. W., *E.S.* 1932
5 3rd, N. Andover

Walser, M., *M.* 1949; a.r.p. 1950
Johns Hopkins Univ. Sch. of Med., Baltimore, Md.

WALTER, M. M., Jr., a. psychiat. (*McL.*); a.r.p. *Psychiat.* 1955; r.p. *Psychiat.* (*McL.*) 1958
McLean Hosp., Belmont

WALZER, SARITA G., a. *An.* M. G. H.

WANG, CHIU-AN, a. *S.* (*W.S.* 1944); a.r.s. 1946 Zero Emerson Pl.

WANG, CHIU-CHEN, assoc. r.; r.p. *R.* 1952 M. G. H.

Wang, Shen Kuang, a.r.s. *Or.* 1957
507 Fairmont Ave., Fairmont, W. Va.

Wang, Yang, *M.* 1953; r.p. 1957
Univ. of Minnesota Hosp., Minneapolis, Minn.

Ward, A. J., *E.S.* 1929
Community Med. Group, Boonton, N. J.

Ward, J. L., *E.M.* 1935
600 Scranton Ave., Lake Bluff, Ill.

WARE, R. G., a.r.p. *R.* M. G. H.

Waring, E. S., *E.M.* 1919
700 W. Main, Fairfax, Va.

WARNER, F. A., a. *M.*
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Warner, J. H., *W.M.* 1937
Student Health Service, Oberlin Coll., Oberlin, Ohio

Warren, C. F., *W.M.* 1933
Big Spring, Tenn.

WARREN, R., *Bd. of Cons.* (*W.S.* 1936) 319 Longwood Ave.

Warren, S. L., *W.M.* 1924
Med. Sch. of Univ. of California South, Los Angeles, Calif.

WARSHAW, A. L., *S.* M. G. H.

WASHBURN, S. L., a. psychiat. (*McL.*); a.r.p. *Psychiat.* 1956; r.p. *Psychiat.* (*McL.*) 1957
McLean Hosp., Belmont

WATKINS, A. L., c. *Phys. M.* and a.p.; a.r.p. *N.* 1938 M. G. H.

WATSON, BARBARA K., a.b. M. G. H.

Watson, J. Laxton, r.s. *U.* 1930
3960 Curtiss Parkway, Miami Springs, Fla.

Watson, James W., *M.* 1944
307 E. 44th, New York, N. Y.

WATSON, RICHARD H., assoc. pediat. (*C.M.* 1952); a.r.p. *C.M.* 1953 8 Porter, Melrose

Watson, Robert F., *W.M.* 1936
New York Hosp., New York, N. Y.

Watts, A. B., *E.S.* 1943
103 E. Holly, Bellingham, Wash.

Watts, J. W., II, *N.* 1928 and *N.S.* 1929 1911 R, N.W., Washington, D. C.

Waud, Barbara E., a.r.p. *An.* 1959
Boston Univ.-Mass. Memorial Hosp., Med. Center

WAXMAN, H. S., a.r.p. (*M.* 1963) M. G. H.

WEBB, J. W., admin. a. M. G. H.

WEBER, A. L., a.r.; r.p. *R.* 1959 M. G. H.

WEBSTER, E. W., physicist *R.* M. G. H.

WEBSTER, H. de F., assoc. n. and a.n.p.; r.p. *N.* 1956 M. G. H.

Webster, R. C., *E.S.* 1943; j.r.s. 1944
1101 Beacon, Brookline

Wedrow, E. M., r.p. *Psychiat.* 1953
479 Beacon

Wegner, K. H., *Path.* 1960; a.r.p. *Path.* 1961 1012 Lincoln Rd., Sioux Falls, S. Dak.

Weiler, H. G., *Or.* 1932; r.s. *Or.* 1932
Central Union Bldg., Wheeling, W. Va.

WEINBERG, A. N., a. *M.* (*M.* 1957); r.p. 1962 M. G. H.

Weinberg, R. A., a.r.p. *D.* 1962
18 Valley Rd., Drexel Hill, Pa.
WEINBERGER, J. L., assoc. psychiat.
51 Brattle, Cambridge
WEINER, L. R., a. psychiat. M. G. H.
Weinfeld, M.S., a.r.s. *Or.* 1961
475 Commonwealth Ave.
WEINSTEIN, L., assoc.p.
New Eng. Center Hosp.
Weir, D. R., r.p. *Path.* 1938
Highland View Hosp.,
Cleveland, Ohio
WEISBERBER, D., c. *Dn. M.* and oral s. 188 Longwood Ave.
WEISER, A., a. *Otolar.*
390 Pine, Fall River
WEISMAN, A. D., psychiat.; r.p. *Psychiat.* 1945
80 Woodbine Rd., Belmont
WEISS, A. D., a. *N.;* a. *Otolar.*
M. G. H.
Weiss, L. L., a.r.p. *An.* 1956
1225 N. Madison Ave.,
Anderson, Ind.
WELCH, C. E., v.s. (*E.S.* 1934); r.s. *E.S.* 1937 M. G. H.
WELD, G. S., *Secretary* and *Asst. Treasurer of the Corporation*
45 Milk
Welles, E. S., *E.S.* 1921
20 Church, Saranac Lake, N. Y.
WELLS, L. D., clin. assoc. *Psychiat.*
82 Marlborough
Wenig, M., *Dn.* 1945
253-02 Northern Blvd., Little Neck, Long Island, N. Y.
WENLUND, D. E., a.r.p. *R.* (*S.* 1962); a.r.s. 1963 M. G. H.
WERMER, H., attend. psychiat. (*McL.*)
McLean Hosp., Belmont
WERMER, OLGA S., a. attend. psychiat. (*McL.*); r.p. *Psychiat. McL.*) 1963 McLean Hosp., Belmont
Wescott, H. H., *Or.* 1924
Irvington, Va.
WEST, F. J., assoc *s. Oph.*
195 Ashmont, Dorchester
West, W. W., *S.* 1948; a.r.s. 1954
2420 N. California, Stockton, Calif.
WEYLMAN, W. T., a.r.; r.p. *R.* 1960 M. G. H.
Wheeler, B. C., *E.S.* 1926
27 Elm, Worcester
Wheeler, C. Gene, *S.* 1956; a.r.s. 1962
1008 N. Washington, Dallas, Tex.
Wheeler, Charles A., *N.S.* 1935 and *W.S.* 1938 69 West, Leominster
WHEELER, E. O., assoc. p.
Zero Emerson Pl.
Wheeler, J. T., *M.* 1956
Med. Arts Bldg., Dallas, Tex.
Wheeler, R. R., *W.M.* 1922
57 Marmion Way, Rockport
Wheeler, W. E., *C.M.* 1934
Univ. of Kentuckey, Med. Center, Lexington, Ky.
WHEELOCK, F. C., Jr., assoc.v.s. (*E.S.* 1943); a.r.s. 1949
Deaconess Med. Office Bldg.,
110 Francis
WHISKIN, F. E., a. attend. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1952; r.p. *Psychiat.* 1954
11 Tudor Rd., Chestnut Hill
WHITE, E. M., a. dir. M. G. H.
WHITE, J. C., *Bd. of Cons.* (*W.S.*
Zero Emerson Pl.
White, L. P., *M.* 1950; a.r.p. 1951
490 Post, San Francisco, Calif.
WHITE, P. D., hon. p.; cons. cardiol. (*McL.*) (*C.M.* 1911 and *W.M.* 1913); h.p. *W.M.* 1920
264 Beacon
Whitelaw, G. P., *W.S.* 1937
Boston Univ.-Mass. Memorial Hosp. Med. Center
WHITLOW, D. R., *S.* M. G. H.
WHITFIELD, T. J., III, a. pediat. (*C.M.* 1954); c.r.p. *C.M.* 1957
Concord Med. Center, Concord
Whitford, W., *Or.* 1931
80 Sherman Ave., New Haven, Conn.
WHITING, R. G., a.p.
226 Marlborough
WHITNEY, J. B., a. *Oph.*
314 County, New Bedford
Whittemore, J. P., *C.M.* 1946; a.r.p. *C.M.* 1947
2330 N.W. Flanders, Portland, Oreg.
WIEDMAN, M., a. *Oph.*
452 Pleasant, Malden
Wigglesworth, W. C., *E.S.* 1945
78 County Rd., Ipswich
Wilcox, J. C., *C.M.* 1937
328 N. Indian Hill Blvd., Claremont, Calif.;
146 Nemaha, Pomona, Calif.
Wilcox, R. E., *S.* 1949; a.r.s. 1955
Beckley Memorial Hosp., Beckley, W. Va.
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WILKINSON, H. A., a.r.s. *N.S.*
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Willetts, A. T., a.r.s. *U.* 1942
79 Union Pl., Summit, N. J.

WILLIAMS, CONGER, p. (*W.M.* 1940) M. G. H.

Williams, D. W., *W.S.* 1943; r.s. *Or.* 1946; r.s. *U.* 1948
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M. G. H.

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Williams, O. B., Jr., a.r.p. *An.* 1955
Parkland Memorial Hosp.,
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Williams, Ralph C., Jr., *M.* 1955; c.r.p. 1960 University Hosp.,
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M. G. H.

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WINKLER, G. F., a. *N.;* r.p. *N.* 1961
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Austin State Hosp., Austin, Tex.

Winn, W. A., *E.M.* 1934
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Wohl, H., a.r.p. 1959
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Wolff, L., *W.M.* 1924
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WONG, L. M. F., a.r.s. M. G. H.

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Wood, E. C., *M.* 1951
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Wood, H. P., *M.* 1948
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Wood, J. Edwin, Jr., *W.M.* 1923; r.p. *E.M.* 1923
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Wood, James A., *C.M.* 1915
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Wood, W. E., *Dn.* 1940
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WOODRUFF, L. M., a. u. (*E.S.* 1939); r.s. *U.* 1947
110 Francis

Wooten, E. Jane Herring, a.r.p. *C.M.* 1944
904 Williamson Dr., Raleigh, N. C.

Worth, T. C., *W.M.* 1938
Rex Hosp., Raleigh, N. C.

Wosnitzer, M., a.r.s. *U.* 1960
32 Forest Dr., Springfield, N. J.

WRIGHT, R. L., a. *N.S.;* sr. r.s. *N.S.* 1963
M. G. H.

Wurtman, R. J., *M.* 1961; a.r.p. 1962
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WYMAN, E. T., a. *Or.;* sr.r.s. *Or.* 1960
412 Beacon

WYMAN, S. M., r.; j.r.p. *R.* 1942
Zero Emerson Pl.; M. G. H.

Wyngaarden, J. B., *M.* 1949; r.p. 1951
Duke Univ. Med. Center, Durham, N. C.

Wynne, L. C., r.p. *Psychiat.* 1951
National Inst. of Health, Bethesda, Md.

Wysham, D. N., *M.* 1954; a.r.p. 1957
Christian Med. College, Ludhiana, Punjab, India

Yaffee, H. S., a.r.p. *D.* 1953
60 Brattle, Cambridge

YAKOVLEV, P. I., cons. *N.P.* (*N.*)
H. M. S.

Yanagisawa, K., *Or.* 1944
216 E. 50th, New York, N. Y.

Yankauer, A., *C.M.* 1941
P.A.H.O.-W.H.O., 1501 New Hampshire Ave., N.W., Washington, D. C.

YATSUHASHI, M., clin. assoc. *S.* (*W.S.* 1945); a.r.s. 1946
Pondville Hosp., Walpole

Yee, L. P. K., *E.M.* 1939 and *W.S.* 1941; a.r.s. 1946
1641 Nuuanu Ave., Honolulu, Hawaii

Yens, O. C., *C.M.* 1930 and *W.M.* 1932
503 Chapman, Canton

Youmans, J. B., *E.M.* 1921
2 E. 103rd, New York, N. Y.

Young, C., *E.S.* 1923
1848 Wilson Ave., Salt Lake City, Utah

Young, D. A., *E.M.* 1933; r.p. *Psychiat.* 1936; r.p. *Psychiat.* (*McL.*) 1937
North Carolina Memorial Hosp., Chapel Hill, N. C.; 714 St. Mary's, Raleigh, N. C.

YOUNG, E. L., hon. s. (*W.S.* 1910)
1180 Beacon, Brookline

Young, J. G., *C.M.* 1926
4005 St. Andrews Dr., Dallas, Tex.

Young, Robert A., r.p. *Psychiat.* (*McL.*) 1934
Judge Baker Guidance Center, 295 Longwood Ave.

YOUNG, ROBERT R., a.r.p. *Path.;* a.r.p. *N.* 1963
M. G. H.

Yount, W. J., *M.* 1961; a.r.p. 1962
Brighton Marine Hosp., Brighton

YURCHAK, P. M., r.p. (*M.* 1958)
M. G. H.

Zacarian, S. A., r.p. *D.* 1955
130 Maple, Springfield

ZACHARIAS, LEONA, biol. *Oph.*
Mass. E. & E. Inf.

Zacks, S. I., *Path.* 1956; a.r.p. *Path.* 1958
Pennsylvania Hosp., Philadelphia, Pa.

ZAMBON, ENES, exec. a. (*S.N.* 1929)
M. G. H.

Zamcheck, N., *Path.* 1943
Boston City Hosp.

ZAMECNIK, P. C. M., p.
M. G. H.

Zaoussis, A. L., a.r.s. *Or.* 1954
9 Merlin, Athens, Greece

ZARSKY, E. L., a. attend. psychiat. (*McL.*)
201 Buckminster Rd., Brookline

Zartman, H. F., *C.M.* 1954
825 L, Anchorage, Alaska

ZAUDY, ELEONORE C., assoc. pediat.
1247 Beacon, Brookline

ZAWACKI, B. E., a.r.s. (*S.* 1962)
M. G. H.

Zeller, J. W., *W.M.* 1935; r.p. 1938
Tufts Univ. Sch. of Med.

Zervas, N. T., sr.r.s. *N.S.* 1961
Jefferson Med. Coll. of Philadelphia, Philadelphia, Pa.

ZETZEL, ELIZABETH R., psychiat.; psychiat. (*McL.*) 14 Hubbard Pk., Cambridge

Zieper, I., a.r.p. *N.* 1958
Lemuel Shattuck Hosp.

Zimbler, S., a.r.s. *Or.* 1962
Children's Med. Center

ZINBERG, N. E., assoc. attend. psychiat. (*McL.*) Beth Israel Hosp.

ZINNINGER, G. F., a.r.p. *R.*
M. G. H.

ZISKIND, A., clin. assoc. *C.*
84 Leonard, Belmont

Zmyslowski, W. P., a.r.p. *An.* 1959
28 Marion Ave., Worcester

ZOLA, I. K., a. sociol. *Psychiat.*
M. G. H.

ZONDERMAN, B., assoc. s. *Otolar.*
285 Commonwealth Ave.

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264 Beacon

Zuelzer, W. W., *C.M.* 1937
Children's Hosp., Detroit, Mich.

Zuidema, G. D., *S.* 1954; r.s. 1959
University Hosp., Ann Arbor, Mich.

Zukowski, H. J., a.r.p. *An.* 1948
Grace Hosp., Detroit, Mich.

ZWERDLING, M. A., a.r.p. *C.* (*C.* 1963)
M. G. H.

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Fitchburg
Pick, W.
Walker, G. M.

Foxboro
Putnam, J. J.

Framingham
Albert, J.
Ash, H. L.
Golden, T. S.
Hirsch, L. S.
Senghas, R. E.

Gardner
McPeak, C. N.

Greenfield
Buchanan, W. R., Jr.
McClelland, W. K.
Moran, J. E.

Hadley
Huntington, J. L.

Harding
Mittel, N. S.

Hingham
Eldredge, L. L., Jr.

Holyoke
Bagg, E. P., Jr.
Bandeian, A. M.
Ferguson, E. L.
Mahoney, S. A., Jr.

Hopkinton
Denton, J. E.

Hyannis
Ciccarelli, E. C.
Eldredge, J. H.
Garran, F. W., Jr.
O'Malley, A. F.

Ipswich
Gauthier, J.
Petranek, J. R.
Wigglesworth, W. C.

Lawrence
D'Urso, J. J.
Ganem, E. J.
O'Shea, J. A.

Leominster
Wheeler, C. A.

Lexington
Bellinger, M. J.
Cosgrove, W. L.
Petersen, J. A.

Longmeadow
Huston, L. L.
Plotkin, L. H.

Lowell
Gehring, J. R.
Grant, G. J. M.
Lawlor, R. C.
Leahey, B. D.
Letsou, V. G.

Lynn
Manzi, R. A.
O'Keefe, E. S.
Sarris, S. P.
Swartz, M.

Lynnfield
Newhall, H. F.
Malden
Bennett, D. R.
Bennett, W.
Garrey, W. E.
Thorp, E. G.
Wiedman, M.
Manchester
Burnett, F. L.
Marblehead
Hopkins, S. W.
Verhoeff, F. H.
Medford
Guthrie, A. D., Jr.
Heath, C. W.
Morrissey, A. M.
O'Connor, H.
Melrose
Glines, G. A.
Hormell, R. S.
Watson, R. H.
Milton
Dickson, W. A.
Driscoll, R. A.
Gamble, C. J.
Hepburn, J. P.
Hurst, A. L.
McGrath, E. F.
Sullivan, E. R.
Toch, R.
Tudor, F.
Van Dyke, W.
Natick
Hanelin, J.
Needham
Jackson, H., Jr.
Vanderpol, M.
New Bedford
Hoffman, H. A.
Lewis, E. O.
Tripp, C. C.
Whitney, J. B.
Newburyport
Bullard, C. W.
Hamilton, R. DeL.
Newton
Adler, M. H.
Newton Centre
Bonner, F. J.
Carter, L. P.
Chasen, M. C.
Derow, S.
Franklin, W.
Gill, B. F.
Kennard, H. E.
Mueller, E. H. J.
Offenbach, B.
O'Sullivan, R. B.
Rutherford, R. W.
Trapp, C. E.
Newton Highlands
Brailey, A. G.
Kaplan, S.
Newtonville
Garcelon, G. G.
Northampton
Averill, J. H.
Tatlock, H.
North Andover
Rogers, H.
Wallwork, D. W.
Norwell
Bailey, D. W.
Norwood
Booth, N. A.
Sternstein, H. J.
Peabody
Lurie, A. S.
O'Rourke, H. J.
Osgood, H. A.
Pittsfield
Miller, J. P., Jr.
Tracy, R. J.
Plymouth
Haggart, G. E.
Hamilton, H. H.
Pocasset
Sanborn, F.
Quincy
Ciano, J. F.
McCarthy, P. L.
McGugan, A. D.
Randolph
Moore, R. F.
Reading
McMahon, A. W.
Rockport
Sanders, M. B.
Wheeler, R. R.
Roslindale
Guardo, J. L.
Rutland Heights
Clifford, M. H.
Salem
Clark, D. S.
Flynn, J. G.
LeDonne, J. E.
Lowd, H. M., Jr.
Monahan, J. J.
Phippen, W. G.
Polansky, S. C.
Richards, R. S.
Shannon, J. M.
Stebbins, H. D.
Thompson, R. H.
Somerville
Pollard, J. T., Jr.
South Duxbury
Shirley, J. N.
South Hamilton
Bacon, W. B.
South Sudbury
Adelson, W. J.
South Weymouth
Emerson, G. F.
Kilfoyle, R. M.
Rounds, C. E.
Springfield
Carson, P. C.
Derby, J. P.
Derrick, C. C.
Edgelow, A. F. G.
Franseen, E. F.
Gibson, G. C.
Hayes, D. R.
Hopkins, F. S.
Hoyt, W. F.
Lewis, J.
Williams, D. W.
Zacarian, S. A.
Stockbridge
Kimberly, C. H.
Swampscott
Mayo, F. B.
Miller, C. C.
Vineyard Haven,
Martha's Vineyard
Butler, A. M.
Waban
Beuscher, R. B.
King, H. S.
Wakefield
Fiascone, A. D.
Rosenthal, M. K.
Walpole
Yatsuhashi, M.
Waltham
Edelstein, L. M.
Hardy, I. B.
Herm, R. J.
Holmes, J. A.
Lewis, J. L.
Shulman, L. B.
Smith, R. H.
Wareham
Lincoln, J. R.
Waverley
For names formerly in Waverley, *see* Belmont
Wellesley
Flanagan, N. B.
Klein, D. C.
Kraus, P. S.
Pfeffer, W., Jr.
Temby, W. D.
Wellesley Hills
Angelini, H. D.
Bragg, R. L.
Brenner, J. H.
Freese, C. G., Jr.
Gray, B. C.
Guralnick, W. C.
Lingeman, B. S.
Parker, J. S.
Pippitt, R. B.
Reidy, J. A.
Stempien, J. H.
Wenham
Rogers, D. M.
West Falmouth
Faxon, N. W.
West Newton
Berezin, M. A.
Weston
Moreton, J. R.
Peebles, T. C.
Rogers, W. P., Jr.
Swan, C. S.
Taylor, G. W.
Van Nüys, F.
Westwood
Bunker, S. M.
Curwen, W. L.
Taylor, J. B.
Williamstown
Reynolds, G. S.
Urmy, T. V.
Winchester
Annino, D. J.
Clark, R. J.
Haley, W. D.
Kaufmann, G. G.
Kermond, W. L.
McLean, J. D.
Marks, G. A.
Tingey, W. H., Jr.
Woburn
McKenzie, W. L.
Worcester
Buckley, F. M.
Burrow, J. G.
Carmody, J. T. B.
Cooperman, S.
Damiani, C. R.

Duggan, J. A.
Freymann, J. G.
Harper, R. S.
Lingley, J. R.
Miller, E. C.
Oakley, J. C.
Reagan, D. J.
Sniffen, R. C.
Starobin, O. E.
Stone, B. B.
Wheeler, B. C.
Zmyslowski, W. P.

MICHIGAN

Allen Park
Russell, H. N., Jr.
Ann Arbor
Bishop, R. C.
Coller, F. A.
DeLong, W. B.
Miller, J. G.
Smillie, J. W.
Sweet, R. B.
Vial, A. B.
Waldron, A. M.
Zuidema, G. D.
Birmingham
Esslinger, J. O.
Leach, C. A., Jr.
Dearborn
Halsted, J. A.
Detroit
Arnstein, A. R.
Blodgett, W. H.
Comly, H. H.
Del Giudice, P. A.
Eyler, W. R.
Frame, B.
Mitchell, D. C.
Osius, E. A.
Prus, A. M.
Rosen, R. B.
Smith, W. P.
Sphire, R. D.
Stiefel, D. M.
Sweeny, D. N., Jr.
Zuelzer, W. W.
Zukowski, H. J.
Grand Rapids
Beeman, C. B.
Capps, S. C.
Sugiyama, T.
Ionia
Tannheimer, J. F.
Iron Mountain
Alexander, W. H.
Jackson
Munro, N. D.
Pontiac
Cudney, E. B.
Saranac
Faust, L. W.

MINNESOTA

Minneapolis
Florence, D. W.
Goetz, F. C.
Johnson, N. P.
Kennedy, B. J.
Peterson, H. O.
Pohl, J. F.
Rodgers, R. S.
Wang, Y.
Williams, R. C., Jr.
Rochester
Haines, S. F.
Helmholz, H. F., Jr.
Randall, R. V.
St. Paul
Schwyzer, M.
Worthington
Amick, A. F.

MISSISSIPPI

Jackson
Guyton, A. C.

MISSOURI

Clayton
Funsch, R. E.
Columbia
Baue, A. E.
Kansas City
Dann, D. S.
Dennie, C. C.
Lilly, T. E., Jr.
Pickard, N. S.
Trowbridge, E. H., Jr.
St. Joseph
McDaniel, J. R.
Riddell, R. V.
St. Louis
Chaplin, H., Jr.
Clark, S. L., Jr.
Dodd, R. B.
Doisy, E. A., Jr.
Drake, T. G.
Funsch, R. E.
Hanser, T. H.
Hershey, F. B.
Josse, J. W.
Lytton, W. B.
Maughs, S. B.
Mayman, C. I.
O'Brien, R. M.
Robins, E.
Stephens, W. A.
Strauss, A. E.
Trenton
Fuson, W. A.
Webster Groves
Gaunt, F. P.

NEBRASKA

Aurora
Steenburg, D. B.
Omaha
Bisgard, J. D.
Bresnahan, J. F.
Luikart, R. H.
St. Aubin, P. M. G.

NEVADA

Reno
Cantlon, E. L.
Cantlon, J. V.
Musgrave, R. U.

NEW HAMPSHIRE

Concord
Mintz, E. R.
Dover
Wilson, R. F.
Exeter
Curtin, R. R.
Heyl, J. T.
Hancock
Eustis, R. S.
Hanover
Anthonisen, M. R.
Goodale, F., Jr.
Gundersen, S. M.
Heyl, H. L.
Hunter, R. W.
McKenna, J. B.
Staples, O. S., Jr.
Sycamore, L. K.
Tisdale, W. A.
Jaffrey Center
Millard, D. G.
Keene
Lacey, W. H.
Laconia
Baker, W. J.
Manchester
Bienvenu, L. J.
Colokathis, P.
Kalil, T. H.
McGahey, C. E.
Walker, J. K.
Orford
Hall, M. G.
Peterborough
Bowditch, H.
Portsmouth
Lium, R.
Whitefield
Thomas, R. L.
Wolfeboro
Adams, R. H.
Gregory, H. E.

NEW JERSEY

Boonton
Ward, A. J.
Elizabeth
Gorman, R. V.
Englewood Cliffs
Roberts, C. D.
Glen Ridge
D'Alessandro, G. L.
Haddonfield
Johnson, D. C.
Leonia
Layzer, R. B.
Madison
Diehl, S. D.
Monmouth Beach
Judd, A. B.
Montclair
Greene, R. G.
Newark
Greene, R. W.
Schaaf, R. S.
New Brunswick
Kuhn, W. G., Jr.
North Long Branch
Gorrell, J. E.
Orange
Stearns, T.
Paterson
Sporer, E. S.
Van Eerde, A.
Princeton
Dalrymple, W.
Munro, J.
Rothberg, H. D., Jr
Springfield
Wosnitzer, M.
Summit
Willetts, A. T.
Trenton
Rosenthal, A. L.
Shine, K. I.

NEW MEXICO

Albuquerque
Adler, S.

Mora, F.
Parnall, E.
Los Alamos
Grier, R. S.
Shipman, T. L.
Santa Fe
Lunt, L. K.
Shiprock
Halverstadt, D. B.

NEW YORK

Albany
Berg, H. W.
Haase, F., Jr.
Holt, W. L., Jr.
Thomas, W. A.
Traver, C. A.
Bath
Traver, R. F.
Bronx
Seed, J. C.
Wohl, H.
Brooklyn
Anderson, H. C.
Friedman, C. F.
Neville, C. W., Jr.
Buffalo
Bakay, L.
Calkins, E.
Carey, R. W.
Holland, J. B.
Hummel, L. E.
Klein, D. M.
Klein, E.
Lambert, E. C.
Lowe, C. U.
Osgood, H.
Stewart, J. D.
Cleverdale
Tefft, R. C., Jr.
Cooperstown
Greenough, J.
McIver, M. A.
Sahler, O. DeP.
Croghan
Guller, E. I.
East Meadow
Morgan, C. L.
Freeport, Long Island
Charash, L. I.
Glen Head, Long Island
Heggie, J. F.
Glens Falls
Batt, R. C.
Katonah
Thompson, W. A.
Kenmore
Schenk, W. G., Jr.
Kingston
Gorman, M. L. G.
Larchmont
Haralambie, J. Q.
Little Neck, Long Island
Wenig, M.
Manhasset, Long Island
Ayers, W. B.
Nicosia, A. P.
Margaretville
Mackie, R. W.
Mechanicville
Ryan, J. P.
Mount Kisco
Hovespian, J. A.
Mount Morris
Judd, J. M.
New Hartford
Millet, J. B.
New Rochelle
Houser, G. F.
New York City
Alper, J. M.
Bowden, L.
Carroll, R. E.
Chamberlain, J. M.
Christenson, W. N.
Cohn, Z. A.
Collins, H. S.
Cu, W. B.
David, J. R.
Dickson, C. C.
Dole, V. P., Jr.
Edelman, G. M.
Ellenberg, J.
Finkenstaedt, J. T.
Fishman, R. A.
Foldes, F. F.
Goldblatt, M. E.
Gomatos, P. J.
Grant, L. H.
Greenhill, M. H.
Heffron, R.
Henley, T. F.
Hiebert, J. M.
Hobson, L. B.
Katz, A. M.
Kaufman, M. R.
Kiely, B.
Klenk, E. L.
Kline, R. M.
Lake, M.
Lambert, J. T.
Locke, E. A.
Loeb, J. N.
Loeb, R. F.
Los, E.
Luck, D. J. L.
Mach, B. F.
Maier, J.
Malcolm, J. A.
Mannik, M.
Metcalf, K. M.
Mixter, G., Jr.
Moore, B. E.
Mote, J. R.
Packert, R. C.
Patterson, R. H.
Patterson, R. L., Jr.
Quan, S. H. Q.
Rappleye, W. C.
Roots, L. H.
Rosenbaum, M.
Saunders, G. M.
Squire, L. F.
Stason, W. B.
Surls, J. K.
Tenney, V. A.
Twombly, G. H.
Ulick, S. C.
Watson, J. W.
Watson, R. F.
Wilson, P. D.
Wilson, P. D., Jr.
Yanagisawa, K.
Youmans, J. B.
Plattsburg
Barton, L. G., Jr.
Poughkeepsie
Bedell, W. C.
Keeley, J. K.
Rochester
Allison, C. R.
Anderson, E. G.
Berg, R. L.
Boller, C.
Clark, M. M.
Crawford, H. B.
Egel, N.
Friedman, S. B.
Gillies, A. J.
Morgan, W. L., Jr.
Morton, J. J.
Moss, A. J.
Radebaugh, J. F., Jr.
States, J. D.
Stewart, J. M.
Saranac Lake
Welles, E. S.
Scarsdale
Hammond, W.
Lipman, M. M.
Syracuse
Dunn, E.
Gardner, L. I.
Gibson, L. E.
Hale, C. H.
Neptune, E. M.
Silverman, A. C.
Troy
Talin, J. J.
Upton, Long Island
Cotzias, G. C.
Dahl, L. K.
Utica
Case, C. T.
Knapp, R. G., Jr.
Watertown
George, H. L., Jr.
White Plains
Newman, H. A.

NORTH CAROLINA

Asheville
Morrison, R. W.
Biltmore
Freeman, W. T.
Chapel Hill
Barnett, T. B.
Burnett, C. H.
Chamberlin, H. R.
Craige, E.
Gottschalk, C. W.
Jessner, L.
Lansing, C.
Lassiter, W. E.
McClellan, W. S.
Miller, M. L.
Monroe, J. T., Jr.
Rolett, E. L.
Taylor, I. M.
Young, D. A.
Charlotte
Brenizer, A. G., Jr.
Elliott, J. A., Jr.
Concord
Collins, D. L., Jr.
Durham
Appel, S. H.
Pearse, R. L.
Peete, W. P. J.
Persons, E. L.
Reeves, R. J.
Schuntermann, P. P.-E.
Wyngaarden, J. B.
Fayetteville
Barlow, J. F.
Greensboro
Register, J. F.

Spencer, R. E.
Troxler, E. R.
Raleigh
Manly, I. V.
Rhodes, J. S.
Sandifer, M. G., Jr.
Wooten, E. J. H.
Worth, T. C.
Young, D. A.
Southern Pines
McMillan, R. M.
Tryon
Placak, J. C., Jr.
Wilmington
Graham, C. P.
Winston-Salem
Conrad, E.

OHIO

Akron
Kramer, J. G.
Lichty, J. S.
Voke, E. L.
Canton
Scott, M. W., Jr.
Cincinnati
Acheson, G. H.
Block, G. L.
Freiberg, J. A.
Gaffney, T. E.
Gall, E. A.
Newstedt, J. R.
Rubinstein, J. H.
Schneider, B.
Seltzer, R. A.
Stenger, R. J.
Cleveland
Badal, D. W.
Bloomfield, D. K.
Evans, R. R.
Ford, A. B.
Glover, D. M.
Groves, L. K.
Hopkins, R. W.
Jefferies, W. McK.
Kendrick, J. I.
Kennedy, J. H.
Morgan, W. S.
Pearson, O. H.
Rhinelander, F. W.
Ryan, K. J.
Shannon, E. W.
Simeone, F. A.
Weir, D. R.
Cleveland Heights
Baumgartner, D. A., Jr.
Columbus
Dawson, C. W.
Haynes, R. C.
Haynes, W. M.
Tetirick, J. E.
Dayton
Flook, S. E.
Hochwalt, W. R.
East Cleveland
Baumgartner, D. A., Jr.
North Canton
Shipley, M. S.
Oberlin
Warner, J. H.
Shaker Hts.
Banker, B. Q.
Youngstown
Coombs, F. S.
McElroy, W. D.
Wooster
Carruth, L. J.

OKLAHOMA

Altus
Hiett, J. K.
Muskogee
Fite, E. H.
Oklahoma City
Bell, J. P.
Carey, J. M.
Eliel, L. P.
Richardson, W. R.
Stout, H. A.
Tulsa
Steele, B. W., Jr.

OREGON

Arch Cape
Rockey, E. W.
Camp Sherman
Livingston, W. K.
Medford
Barss, T. P.
Rutter, T.
Portland
Baker, R. L.
Boyden, A. M.
Burns, E. M.
Carter, R. R.
Crary, L. S., Jr.
Durno, E. R.
Hall, R. G.
Higgins, R. B.
Ray, L. F.
Saslow, G.
Sutherland, D. W.
Thatcher, B. van H.
Whittemore, J. P.

PENNSYLVANIA

Ardmore
Bora, F. W., Jr.
Sampson, D. A.
Bangor
Cascario, N., Jr.
Bethlehem
Leister, C. M.
Danville
Murray, D. B.
Drexel Hill
Weinberg, R. A.
Easton
Horwitz, W. H.
Fort Washington
Boger, W. P.
Glenside
Michie, C. R.
Harrisburg
Berkheimer, G. A.
Johnsville
Ragland, S., Jr.
Latrobe
Moran, T. W., Jr.
Media
Kitts, A. W.
Merion Station
Murphy, G. L.
Philadelphia
Bornstein, D. L.
Brent, R. L.
Dohan, F. C.
Fisher, M. S.
Goeringer, C. F.
Heath, R. D.
Ingalls, T. H.
Ludwig, G. D.
McCann, S. M.
Mancall, E. L.
Mendelsohn, M. L.
Michie, A. J.
Montgomery, H.
Nicholson, J. T.
Normann, N.
Perrin, G. M.
Price, S. E., Jr.
Roth, J. L. d'A.
Rovit, R. L.
Schnabel, T. G., Jr.
Ship, I. I.
Starr, I.
Stokes, J., Jr.
Stunkard, A. J.
Wood, H. P.
Zacks, S. I.
Zervas, N. T.
Phoenixville
Shuter, E. R.
Pittsburgh
Clark, D. A.
Dwyer, J. H.
Fennell, R. H., Jr.
Ferguson, A. B., Jr.
Field, J. B.
Leighton, J.
McLaughlin, W. B.
Tyson, R. G.
Urquhart, J., III
Swarthmore
Ferguson, J. J., Jr.
Wyomissing
Leinbach, T. C.
Morrissey, E. J.

RHODE ISLAND

Cranston
Aaronson, L. D.
Pawtucket
Hogan, J. F.
Providence
Cotter, W. C.
Cutts, F. B.
Hamlin, H.
Liffmann, K. E.
Littlefield, J. W.
Pitts, J. D.
Robinson, M.
Sargent, F. B.
Sawyer, C. S.
Sinclair, E. B.
Strom, J. O.
Troppoli, D. V.

SOUTH CAROLINA

Charleston
Boone, J. A.
Clowes, G. H. A., Jr
Paul, J. R., Jr.
Summerall, C. P., III
Talbert, O. R.
Columbia
Theus, W. W.
Greenville
Brannon, L. C.

SOUTH DAKOTA

Sioux Falls
Wegner, K. H.

TENNESSEE

Big Spring
Warren, C. F.
Bristol
Gammon, W. M.
Chattanooga
Ballard, F. B.
Kingsport
Maloy, J. K.
Knoxville
Chernoff, A. I.
Stall, B. G., III
Memphis
Livermore, G. R., Jr.
Nobles, E. R., Jr.
Rosenberg, E. W.
Shaw, J. L.
Stern, N. S.
Nashville
Buchanan, R. N., Jr.
Cobb, C. A., Jr.
Lee, J. M.
Newman, E. V.
Smith, M. L.
Oak Ridge
Ruley, H. B.

TEXAS

Austin
Kreisle, J. E.
Winkler, J. J.
Beaumont
Hinshaw, A. J.
Dallas
Binion, J. T.
Carter, G. B.
Coggeshall, H. C.
Giles, R. B., Jr.
Hodges, T. W.
Jenkins, M. T.
Martin, C. L.
Martin, J. A.
Moore, S. H., Jr.
Rose, P. F.
Rosser, C.
Schneiderman, R. N.
Siperstein, M. D.
Spence, H. M.
Thompson, J. E.
Urschel, H. C., Jr.
Wheeler, C. G.
Wheeler, J. T.
Williams, O. B., Jr.
Young, J. G.
Denison
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Tehran
Gashgai, A.

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Mnaymneh, W. A.
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Lund, I.
Stovner, J.

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Lima
de Mola, L. L.

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Stockholm
Mathë, A.

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Hügin, W.
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Geneva
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Zurich
Bally, P. R.

WALES
Cardiff
Thomas, A. G. T.

WEST PAKISTAN
Rawalpindi
Klaus, H.

FORMS OF LEGACIES

A. *An Unrestricted Legacy*

"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($)."

Money given in this way may be used by the Hospital for any purpose within the scope of its powers. Both principal and income may be so used.

B. *A Legacy Restricted as to Principal but Not Restricted as to Income*

"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($). The principal of this gift shall be held and may be mingled with other funds of the Hospital for investment. The Hospital may expend the income for any purpose within the scope of its powers. (The following sentence is optional.) This gift is made in memory of ..... and shall be known as the ..... Fund."

Money given in this way establishes a permanent fund.

C. *A Legacy Intended for a Special Purpose*

Where either principal or income of a bequest is to be restricted to some special purpose of the Hospital, it is suggested that the testator contact the Treasurer's Office, 45 Milk Street, Boston.

DALTON SCHOLARSHIPS

Scholarships will be awarded to the candidates recommended by the General Executive Committee of the Massachusetts General Hospital and confirmed by the Trustees.

The holders of these Scholarships are required to do original work in subjects to be designated.

For particulars apply to the General Director.

MASSACHUSETTS GENERAL HOSPITAL
Fruit Street, Boston

See also page 131 of this Report

WARREN TRIENNIAL PRIZE

The Warren Triennial Prize was founded by the late Dr. J. Mason Warren in memory of his father, and his will provides that the accumulated interest of the fund shall be awarded every three years to the author of the best dissertation, considered worthy of a premium, in some subject in Physiology, Surgery, or Pathological Anatomy, the arbitrators being the General Executive Committee of the Massachusetts General Hospital.

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